

<211> 319  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc feature  
 <222> (306)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> misc feature  
 <222> (317)  
 <223> n equals a,t,g, or c

<400> 48  
 ggcacgagcc agaacaaaa gtacaatagc tgttgctcaa ttgctagtca aataacttag 60  
 cactggggaa ttccmgatgt tacttaggga attttatact ggtgcatctc aataaagaac 120  
 tgaaaagtaag cacaagaaga aaaaaagcct tatctttgct ctagattttg caaaggggaa 180  
 atttcaacag aacgcaatca ttgctacacg tctgccaaga cacaaggctt gggcgatctt 240  
 tttttgttca tttgttttgg atacttagct agtttttctt aaatgtatac cattggaggg 300  
 ggatanctgg gccttttngg 319

<210> 49  
 <211> 278  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
 gacggatgaa gagatcgcg cggtggagcc gttacaaagc gttgaacgcc ggacgtacca 60  
 gtaagcgat tcataaagcc ctgggtggtgc gtaaaggctg gctgggtaaa ctgccttcat 120  
 taccgcttcg ctggcgggcg cgtggagtga tgaccctrat gtttatcttg ctggcgggcca 180  
 tgctttggtt tggtgctgcc ccggtggtga cgtatatact ctgtgcgtta gtgggtattgt 240  
 tggcagcgcc tgttttgaat ggcagattgt acgcccgt 278

<210> 50  
 <211> 652  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
 ctttctcacc actctcctgc tagccatctc tttggcacta aggccttggg caaattggat 60  
 ttcttttcatt ttccacact tcaaagaccc atgttctagg tattctccat agggatagtc 120  
 tctttggcat ttatttggtt tttctacgtt ttcagtccca tttactccaa gactcactcc 180  
 ctgccacctg gtgcatcaga tacagctact tctggctgac ttttcaaggg ggaccacctt 240  
 acctgtcatc tcttactgtt tcagaaatga ctgtgtcagt ggcacctcaa actcccttgc 300  
 tgtccttttc caaggagaca gctaaggtgg atggagatgc agaattggacc tcacgttcgc 360  
 cctagtcagg actgataccc tttccgtttc agaggattgc caagaaaaaa ctcacagtgt 420  
 aggcagggtg ctctgaggtc ggctgcggtg tgggaggcac gsctgggcmr gctctctggg 480  
 ctggagcagg tggattcgaa ggcctgtcta gcacgagggc ccaaaggctt tgtcagtggc 540  
 cagtagctct gccgccttcc ccagagaggg ggtccagggg acatcctgga aggctggggc 600  
 ctggggccacc ttctgtctct gcaagctaga gccagcccaa tagggggcgg at 652

<210> 51  
 <211> 943  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (140)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (786)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (843)  
 <223> n equals a,t,g, or c

<400> 51  
 gctttgcaac agatcgcttc ttcaaagtct ggcacaacgc ccagagctcg atgagagaac 60  
 agcccatctt caccacccga gcgcattgtt tccagattga cccaacacc aagaagaact 120  
 ggatgcctgc gagcaagcan gcggtcaccg ttctctactt ctatgatgtc acaaggaaca 180  
 gctatcggtat catcagtgtg gacggagcca aggtgatcat aaacagcaca atcacaccga 240  
 atatgacctt caccaaaacg tcacagaagt ttgggcagtg ggccgacagc agagccaaca 300  
 cagtgtttgg ttgggggttt tcctctgagc agcagctgac aaagtttgca gagaaattcc 360  
 aggaggtgaa agaagctgcc aagatagcca aagacaagac gcaggagaaa atcgagacct 420  
 caagtaatca ttcccaagca tccagtgtca acgrgacgga cgatgaaaag gcctctcacg 480  
 ccggtccagc caacacacac ctgaagtctg agaatgacaa gctgaagatt gccttgacgc 540  
 agagcgcacc aacgtgaaga agtgggagat cgagctgcag acccttcggg agagcaatgc 600  
 acggctgacc acagcactgc aggagtcggc agccagtgtg gagcagtgga agaggcagtt 660  
 ctccatctgc cgtgatgaga atgaccggct ccgcaacaag attgatgagc tgggaagaac 720  
 aatgcagtga gatcaacaga gagaaggaga agaacacgca gctgraagag gaggatcgag 780  
 gagctnggag gcagagctcc gagaaaagga gacagagctg gaaagatctt ccggaataca 840  
 aantggaatc mtacytscag ctctgttca gattgcggat tttgtctctt gagaagctag 900  
 aggcgggcag agagagacat tcaaaacttg gaagacaaat gcg 943

<210> 52  
 <211> 832  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
 gcgtcgacat agaattgaag ttgctcgtca gctgattgaa gataaggaga ttggcctgga 60  
 ttatccagggt aggctcaatg taatcaggaa gggcctttaa agtgagagag ggasgsagaa 120  
 gaggaagtca gagcgatgtg ctgtgaaatc tactaccgtt tgctgggtttt gaaaatggag 180  
 aaaaagagtg aggaactgag aaacatggat ggccttggga acgtggaaaa gggctactga 240  
 aatgggacga catgaactca aggaggctat ttatgaccat gtcattttgca acatgaagaa 300  
 agcttatctg gagtgaaggt aaatgagacc aacagagatr agagacccgg agaaatcctg 360

```

gttacactgc ttgaatcctg tcagtcctat actggagtcg tgtaataaca aaataatagt 420
aataatccct ctgtttctta tgtttatgcc aacttcaaca aaaagaaact tgactaagag 480
acaatataag aayttaatgt gtaattaaga aagaactctc caccacgggg aatgtgaaag 540
gtatatgagt cccctttcac gatgcgatgt catgtctttt aaataagcca tactttatgt 600
tcaataaaaa gagaataagc aggattcgcg agagaacaca atcccttttt aactgctggg 660
aagatacytt tagtcattaa tgrctggacg acaatttggg rcacmtatat ggatattggc 720
cggtttgtga tgatgtgatt gggcctctaa gtgacaacat tgttccctgt atagagtgaag 780
tggcaagtgc atttataaaa ttggccatca tggctgttaa atttaaaaaa aa 832

```

&lt;210&gt; 53

&lt;211&gt; 1554

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

```

agcgggcctg gagttcagtg ggtgcagcct gcttgcragc tgaggccaga caggggggag 60
cctacggacg gawaaggagg agcattgcag gccgagacgc cctcatcagc agagtcacag 120
gagttttggg aagtgaagag aaaagaaaag ttgattacaa acgggacat attttgcttc 180
gaaatggaac cagcagttag cgagccaatg agagaccaag tcgcacggac tcatttgaca 240
gaggacactc ccaaagtga tgcgtgacata gaaaaggtta accmgaatca ggccmagaga 300
tgcacagtg tgcgtggctc tggattcctg gggcagcaca tgggtggagca gttgctggca 360
agaggatatg ctgtcaatgt atttgatata cagcaagggt ttgataatcc ccagggtgag 420
ttctttcttg gtgacctctg cagccgacag gatctgtacc cagctctgaa aggtgtaaac 480
acagttttcc actgtgcgtc acccccacca tccagtaaca acaaggagct cttttataga 540
gtgaattaca ttggcaccaa gaatgtcatt gaaacttgca aagaggctgg ggttcagaaa 600
ctcattttta ccagcagtg cagtgtcatc tttgagggcg tcgatataca gaatggaact 660
gaagaccttc cctatgccat gaaacccatt gactactaca cagagactaa gatcttacag 720
gagagggcag ttctggggcg caacgatcct gagaagaatt tottaaccac agccatccgc 780
cctcatggca ttttcggccc aagggaaccc cagttgggtac ccatcctcat cgaggcagcc 840
aggaacggca agatgaagtt cgtgattgga aatgggaaga acttgggtgga cttcaccttt 900
gtggagaacg tgggtccatg acacatcctg gcggcagagc agctctcccg agactcgaca 960
ctgggtggga aggcatttca catcaccaat gatgagccca tccctttctg gacattcctg 1020
tctcgcatcc tgacaggcct caattatgag gcccccaagt accacatccc ctactgggtg 1080
gcctactacc tggccctcct gctatccctg ctggtgatgg tgatcagtc tgatcatccag 1140
ctgcagccca ccttcacacc catgcgggtc gacttggtg gcacattcca ctactacagc 1200
tgcgagagag ccaaaaaggc catggggtac cagccactag tgaccatgga tgatgctatg 1260
gagaggaccg tgcagagctt tcgccacctg cggagggtca agtgaggagc actggaggct 1320
gggctctctc gacacgttgc tcagccagtc actccttccc ctgtggattg atgaaataac 1380
atcctttgaa tgagtttgct ctgagcctgt gactccttct gctaggcaga gagcgaccc 1440
tactctttcc gtgacgatga gggcggcaaa aacagacatt tcttccttca tggaactgga 1500
tttgatttcc ttgaagcagg cagcttcata ttataccgat ttgttctctg tcaa 1554

```

&lt;210&gt; 54

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

```

agctatttac aggttttaag caaatgatta tgtctgtgtt ttaaaggat tatattctag 60
atgcttcagtg gaattacgtc atttatactt tataaatcta taatgtgtam tgaattaaaa 120
acaagcttgg gaaacataaa ctcaagttag aaaatatggg tttgacataa aaccttaaat 180

```

atgtttcatt tgtttgcttg tttggcttgt ttgtttctaa cacaagttaa acctacatgt 240  
gagtcacctt tgggattgat gagtctagrg tttgaaacca g 281

<210> 55

<211> 807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (770)

<223> n equals a,t,g, or c

<400> 55

gcgtcgaccg gagagctgtg tcaccatgtg ggctgggttg cttcctcacc ctgtccgtga 60  
cgtggattgg tgagaggggc catgggttggg gggatgcagg agagggagcc agccctgact 120  
gtcaagctga ggctcttttc cccccaaccc agcaccaccag cccagacagg gagctgggct 180  
cttttctgtc tctcccagcc ccaactccaag cccatrcccc cagccccctcc atattgcaac 240  
agtcctcact cccacaccag gtccccgctc cctcccaactt acscacagarc tttctcccca 300  
ttgcccagcc aactccctgc tcccagctgc tttactaaag gggaagtcc tgggcatctc 360  
cgtgtttctc tttgtggggc tcaaaacctc caaggacctc totcaatgcc attgggttctt 420  
tggaccgtat cactggtcca cctcctgagc cctcaatcc tatcacagtc tactgacttt 480  
tcccattcag ctgtgagtgt ccaaccctat cccagagacc ttgatgcttg gcctcccaat 540  
cttgccctag gatacccaga tgccaaccag acacctcctt cttcctagcc aggetatctg 600  
gcctgagaca acaaatgggt cctcagctc ggcaatggga ctctgagaac tcctcattcc 660  
ytgactctta gccccagact cttcattcag tggccacat tttccttagg aaaaacatga 720  
gcatccccag ccacaactgc cagctctctg attccccaaa tctgcatcnn tcttcaaaac 780  
ctaaaaaaaa aagaaaaaaaa aagtcga 807

<210> 56

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 56

gaccctctca caccaggtta cccagcaaatt gaatatgctt ataggcgtgg aattgcagag 60  
gctgttggtc tgccaagtat tcctgttcat ccaattggat actatgcatg cacagaagct 120  
cctagwaaaa atgggtggct cagcaccacc agatagcagc tggagaggaa gtctcaaagt 180  
gccctacaat gttggacctg gctttactgg aaacttttct acacaaaaag tcaagatgca 240  
catccactct accaatgaag tgacaagaat ttacaatgtg ataggctactc tcagaggagc 300  
agtggaaacca gacagatatg tcattctggg aggtcaccgg gactcatggg tgtytggtgg 360  
tattgaccct cagagtggag cagctgttgt tcatgaaatt gtgaggagct ttggaacact 420  
gaaaaaggaa ggggtggagac ctagaagaac aattttgtt gcaagctggg atgcagaaga 480  
atttggtctt cttgggttcta ctgagtgggc agaggrgrat tcaagactcc ttcaagagcg 540  
tggcntgggc tttatatata atgctgactc atctatagga aggaaactac actctgagga 600  
gttggtattg acaccgcttg atgtacagct tgggtacaca ccttaccaa gagctg 656

<210> 57  
<211> 794  
<212> DNA  
<213> Homo sapiens

<400> 57  
gcggccgcag gcagcccacc ccgyccacgt cgccggagcc gccgcgcagc agccccaggc 60  
agacccccgc gcccgcccc gcccgggaga agagcgccgg caagaggggc ccggaccgcg 120  
gcagccccga gtaccggcag cggcgcgagc gcaacaacat cgccgtgcgc aagagccgcg 180  
acaaggccaa gcggcgcaac caggagatgc agcagaagtt ggtggagctg tcggctgaga 240  
acgagaagct gcaccagcgc gtggagcagc tcacgcggga cctggccggc ctccggcagt 300  
tcttcaagca gctgccagc ccgcccttcc tgccggccgc cgggacagca gactgccggt 360  
aacgcgcggc cggggcgga gagactcagc aacgacctat acctcagacc cgacggcccg 420  
gagcggagcg cgccctgccc tggcgagcc agagccggcg ggtgcccgct gcagtttctt 480  
gggacatagg agcgcaaaga agctacagcc tggacttacc accactaaac tgcgagagaa 540  
gctaaacgtg tttattttcc cttaaattat ttttgtaatg gtagcttttt ctacatctta 600  
ctcctgttga tgcagctaag gtacatttgt aaaaagaaaa aaaaccagac ttttcagaca 660  
aaccctttgt attgtagata agaggaaaag actgagcatg ctcaactttt tatattaatt 720  
tttacagtat ttgtaagaat aaagcagcat ttgaaatcgc aaaaaaaaaa aaaaaaaaaa 780  
aaaaaaaaaa aaaa 794

<210> 58  
<211> 1155  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (432)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<400> 58  
aaaaagccag aagatgaaat tgctagttca aagttggttg attgctagtc atgtcatgag 60  
gatcagaagg ttgagatttt tgtagaagct tagaccagtg tgatagtagt gattggatca 120  
agacgtttgc aaaanggact aggcctcatag taacttcgcc tgataaaca cttgatgcag 180  
atgtttcccc caagcccact attttcttcc ttorattgct gaaacaaarc tccagaaggc 240  
tggaacatac ctttgtcttc ttgagaaatt tttcccgat rttattaaga tacattggsa 300  
agaaaagaag agcaacacga ttctgggatc ccaggagggg gaacaccatg gaagactaac 360  
gacacatata tgaaatttag ctggttaacg gtgccagaaa agtcaactga caaagaacac 420  
agatgtatcg tncagacatg agnaataata aaaacggrgt tgatcaagaa attatctttc 480

```
ctccaataaa gacagatgtc atcacaatgg atcccaaaga caattgttca aaagatgcaa 540
atgatacact actgctgcag ctcacaaaaca cctctgcata ttacatgtac ctccctcctgc 600
tcctcaagag tgtggtctat tttgccatca tcacctgctg tctgcttaga agaacggctt 660
tctgctgcaa tggagagaaa tcataacaga cggtaggcaca aggaggccat cttttcctca 720
tcggttattg tccctagaag cgtcttctga ggatctagtt ggcctttctt tctgggtttg 780
ggccatttca gttctcatgt gtgtactatt ctatcattat tgtataacgg ttttcaaacc 840
agtgggcaca cagagaacct cactctgtaa taacaatgag gaatagccac ggcgatctcc 900
agcaccaatc tctccatgtt ttccacagct cctccagcca acccaaatag cgctgctat 960
agtgtagaca tcctgcggct tctagccttg tccctctctt agtgttcttt aatcagataa 1020
ctgcctggaa gcctttcatt ttacacgccc tgaagcagtc ttctttgcta gttgaattat 1080
gtggtgtgtt tttccgtaat aagcaaaata aatttaaaaa aatgaaaarw aaamaaaaaa 1140
aaaaaaaaa aaaaaa 1155
```

<210> 59

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 59

```
ggcacgagtg caggggtcaa cccttataaa tgcagtcatt gtgagaaatc cttcagtggg 60
aaattacgcc ttcttgtaga ccagagaatg cacacaagag agaaaccata tgaatgcagt 120
gagtgtggaa aagccttcat taggaattct caactcattg tacatcaaag aactcattca 180
ggagagaaac cctatgggtg ncaatgaatg tgggaaaacc ttctctcaaa aatcaattct 240
cagtrcacat cagagaacac atacaggaga gaagccttgt aagtgcactg aatgtgggaa 300
agccttttgt tggaaagtcac agctcattat gcatcagaga actcatgtag rtgacaaaaca 360
ttgataatth tacgaaactc tgaaaagtgg attcacaaga gatagaaaaca atcatatata 420
aagagaaact ctgtaatggg aatcatcttg tccntcttcc agaaaantca tantgaatag 480
aaactttatg ga 492
```

<210> 60

<211> 1617

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1617)

<223> n equals a,t,g, or c

<400> 60

```
ggaggccctg cgagaggact gtgcggccca ggcacagcgg gcacagcggg cccaacagwt 60
gctgcagctg caggtgttcc agctgcacag gagaagcggc aattgcagga cgacttcgca 120
cagctgctgc aggagcgcga acagctggag cgcgctgcg ccaccttgga gcgggacagc 180
gggagctcgg gccgaggctt gaggagacca agtgggaggt gtgccagaaa tcaggcgaga 240
tctccctgct gaagcagcag ctgaaagagt ctcaggcaga gctggtgcag aagggcagcg 300
agctggtggc tctgcgggtg gcgctgcggg aggcccgctg tacgctgcgg gtcagtgaag 360
gccgtgcgcg ggggtctacag gaggccgccc gagctcggga gctggagctg gaagcctgtt 420
cccaggagct gcagcgacac cgccaggaag ctgagcagct gcgggagaaa gctgggcagt 480
tggatgctga ggcggccgga ctccgggagc cccctgtgcc acctgccacc gctgaccat 540
tcctcctggc agagagtgat gaggccaaaag tgcagcgggc agcagccggg gttgggggca 600
gcttgccggc ccaggtggag cgattgcggg tggagctgca gcgggagcgg cggcggggtg 660
aggagcagcg ggacagcttt gagggggagc ggctggcctg gcaggcagag aaggagcagg 720
tgatccgcta ccagaagcag ctgcagcaca actacatcca gatgtaccgg cgcaaccggc 780
agctagagca ggagctgcag cagctcagcc tggagctgga ggcccgggag ctcgctgacc 840
tgggcctggc cgagcagccc cctgcatctg cctggaggag atcactgcta ctgagatcta 900
gggccctcag caaccagctc tgtagggagc tctgccagag gggcagcagc tgcagatcca 960
cttaggcccc aggggtccacg gatggcccca aaggctgagg gcccacaaag cacttgtctc 1020
ctaggatcca ggcctctggg cttctgccaa gaactcaggg tggccctatg acttgaggga 1080
gcaagatcag accgctcaaa ggtccccgtg ttcactgtta cccagaggct cttgttacta 1140
cccacttcac tccccaccgc tgccagtgcc actgccaacc ctgttcacag gcgcttcacg 1200
cccactccag ccaggggagc aggggaagaag aaggggctcc ctctcttca cattcccccc 1260
gaccccaaag ccagagaaaag ccagatggca ccagctgctc cgcatgtgcc tgcccacatt 1320
gggggacagg gccgggcctg ggctcgggtc ccagggttga gctctgcagc ctctctcctg 1380
gagtgaaggg gctgaagtca gaccaaagga agaactcaga aatgtcttgt ttatttgtgt 1440
ttgtgaccaa gcagcctctc ccttcaccca ggtttatggc ctggttttca cttgtatatt 1500
tttcacactg taaatttctt gtacaaaccc aaagaaaaaa ttaaaaaaaa tttttttgtt 1560
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa cncgnggggg ggccccgtac ccaattn 1617
```

<210> 61  
<211> 1653  
<212> DNA  
<213> Homo sapiens

<400> 61  
aaatatgaga attttaaagt aatatattga tyaaagatca ctgatgatat agatataata 60  
tatcataaca gaaggaaagt aaatggactt gagcttaact tctcaccctg gaattattag 120  
tggttgaaga ggggaatcat tagcattctg ggcgttttta tattaatgt tttgtgaata 180  
tgccagaaga tctgccttca acttgtaatt aggcaagata gtaaygcttg atggtaactt 240  
ctatgtttgt gtagaaataa taccagttag ttttggaag ccattcagat ccattcaaaa 300  
attccataaa gtatgatgta tgctttggaa gagggatatg agtgatacaa ttgttatata 360  
aatggaatag acaaaccatt tgaatgcatt tttctagggc aaacattttt tgagattttt 420  
gagttaagaa gatttttcgg cttgagcaga agatgtgttt gttttgcatt tttcagctcc 480  
aaggaaatag ccccatggc tttaaaaggc cctgaagtcc agatagtagt aggtagtgtt 540  
ttgttattgt tttatttga gagttgcagg aataatgggc agagctgtca tttgccggtta 600  
ckaccatctg cctacataga attattggac tgtaagctaa aacagactgt aaaagacctt 660  
cttgctaaag cattgcttat tcagtggtat tcagtagata agatctattt cctgatataat 720  
tgtgctcaag ttatttgcac atcttaagaa acttttaata tctaaaacca ttgttgtaag 780  
atthaggtag aggaggtttc cttttgtgtg atgcataata atagaaaaca ctgatacagt 840  
gtttactatg tgccaagcaa gcatatgata actaattctt aacaactcta tgaggcaggg 900  
tcatttatta tcctgttgtc atatgaggaa atctcgccag agagaagtta attaacctgc 960  
ccaaggtcgt atagttagta aagtggatcat gcttggtttt taacctaggc agattacttc 1020  
agagtcagcg tctgccttac tatcctgttt cctgagcagg aatttccctt tgtgtcaggc 1080  
aacactaggc gttaggagtg gaggtgtgca gatgttgctt tacattctgt tttcctgatg 1140  
tggtgtgctt cctaagagta caaacctgag catatgtcca ggcttgcaaa gtctcaggca 1200  
aagctgggac taaggcttgt gtttcctgcc ttgggttagga ttttcttcta tgcattgttg 1260  
gtgcttctca cttaacctaa tagtatgcct tgtctgtttt cccccccttc cctttttgtt 1320  
taaattgatt cacagaacac aaaaatttac taggtatgaa catttgaaaa aatggaatag 1380  
agaaaaatgg acatcacatg taataaagat aaatatgttt ttgtgaaatg tctttttcaa 1440  
tcataaatat gtgttgtgtg ctatataaaa ctatttctta ttgtggatat tgaagtttga 1500  
agcctgttgt tcatctatag atgcactgga tgggattgga agtcttcaga tttcagtagg 1560  
gtttccaca agcttatgaa gacattgttc tgtttaggct gtaaacgtgt tttatttctt 1620  
gatgaaaaat gttcttctat ttatatgatc cca 1653

<210> 62  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<400> 62

```
gaattcggca gaggaataaa taatttatta tatggtaaag gtggcatttc aaatcaatgg 60
gaaaaggtag gtttattgac aaaggatttg aagcaacggg ttaagatttg gaaaataact 120
atctctgctc ccaaaccattc accatatgag actgtagacc taataaaaaat aaacataaga 180
ttatgagaat aaaatatcaa taaatatttt atactatctt gcagtgggat aggaattgtc 240
tcactcctgc tggggtgact ccccatgaac ccagggctc ttcagttcca aagrggaaaa 300
aggggaacag atggcctcct ccccttcctc actccctcctg gaccagcat tgctccctga 360
aggttttcga gccaccctcc ttccattcc tctgggggg ccaaggangn ttaaacagca 420
gggcccttcc nggtgtgccc 440
```

<210> 63

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 63

```
aattcggcac gagggaacct tgaaccagcc rctgaccaa ttggatagat cttctgaaga 60
gcctttggga gttctggtaa atcccaacat gtaccagtcc cctccccagt gggttgacca 120
cacagggtgca gcctcacaga agaaggcttt ccgttcttca ggatttgac tagagttcaa 180
ctcatctcag caccagttgc gaatccagga tcaagaattt caggaaggct ttgatggtgg 240
ctggtgcctc tctgtacatc agccctgggs ttctctgctt gtcagaggga ttaaaagggt 300
ggagggcaga tcctggtaca ccccccacag aggacgactt tggatagcag ccacagctaa 360
aaaaccctcc cctcaagaag tctcagaact ccaggctaca tatcgtcttc ttctgtggaa 420
agatgtggaa tttcctaatt actatccgtc agttgtcttc tgggctgtgt ggacctaat 480
gactgcttgt ccagaagca atttaaggag cagtttccag acatcagtca agaactctgat 540
tctccatttg ttttcatctg caaaaatcct caggaaatgg ttgtgaagtt tcctattaaa 600
ggaaatccaa aaatctggaa attggattcc aagatccatc aaggagcaaa gaaggggtta 660
atgaagcaga ataaagctgt ctgaccagg agaaaaggaa ctatacagca tagtggagtt 720
ttgtgtacta aaattgctat ctactggtcc tttggaattg aagtagtaga aacctaaagg 780
cttggcgctca ggctgaata tctcagaact taaactctta ccaaatctg tatatttttc 840
ttaaggagtg ggattcctac tttatgtaat ggggtcgaaa tctttgaaca cattatttat 900
aaaaacctgt ttaaaaggtc gacggtatcg ataagcttgg atatcgantt cggcacgagc 960
ccacctctac ctctgggggg accggcctgg acgctggtgg ccccgggacc cagcagagct 1020
gggggaaggg tcagccccc aaagaaatgg ggggtgcatg tg 1062
```

<210> 64

<211> 422  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (252)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 64  
ggcagaggga agaggaaggg aggggagggg agccccttct tcctggtaga tacaaagctg 60  
ggctctggat acccttgaag cagtgcacag cctgtacaac agtccccagc agccctgtct 120  
atccccagc atctccctgc tagctgctgt tcctctctct cccgctggct gggcctgctg 180  
ccaagctgtg gtgactcagc tgagctggca cattgacccc agcttattgt ttaaaaacca 240  
gcccgactgg gnaatttatg gtttctatc cccttccaca catttttctg gccacaaggc 300  
aagaaactta tctctggcat cttcagattt cttstatttw attttgggnc ttcccttgcc 360  
tggcaatatg tttcatagag tgggtaagtg agacotgaca ggtgttttca aggataattt 420  
ca 422

<210> 65  
<211> 709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (674)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (684)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (692)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (697)  
<223> n equals a,t,g, or c

<400> 65  
aattcggcag agcgcttctc cattctctgt gggttgtgtt gttttcttca tgaattccga 60

```
agtttactct tggatgatct agttgaagag ctagtggtta ctgatcacac tgtcttctct 120
ccttgaaatt ggtgcatatt agctgcttct agtcagccct cttgcccaga atccccaaaa 180
agaaaaattgt tagttcaggg attgtagctt tttttttgtt ttaacatgag atatgtgatt 240
ataataaaact tcaagtattc aggaccattt tatggataaa aggagaatct aactttttaa 300
agttgggaaa atgatttaat attggaaact caagagttac aaattcttac agttatttca 360
aaactaaaagg tttcttttaga gctccaaatt tagagctata aatcctatat ccgtaatcaa 420
atccagtact gataacaatg aacaattgct gaagagtaat attctctctc tctttaccaa 480
tgtaagcctt agcattggta ctttcttgwa wtatcttttt gcatgccatt atgatcagaa 540
aaaacaaaaa gctaccacaga aagggcagcc acattctaaa tgataggctt ttacctccct 600
gagggggctg ctaggtacct acctggatta ggaattcatt tggtaaaaaa cagggggcct 660
tttaaatcta aatnaccatt tccnaataat tngtttnccg tttattccg 709
```

<210> 66

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 66

```
gctcgacaag aagagaaaga aggacatgct gaatagcaaa accaaaactc agtattttcca 60
ccaggaaaaa tggatctatg ttcacaaagg aagtactama gagcgccatg gatattgcac 120
cctgggggraa gctttcaaca gactggactt ctcaactgcm attctggatt ccagaagatt 180
taactacgtg gtccggctgt tggagctgat agcaaagtca cagctcacat ccctgagtg 240
catcgcccaa aagaacttca tgaatatttt ggaaaaagtg gtactgaaag tccttgaaga 300
ccagcaaaac attagactaa taagggaact actccagacc ctctacacat ccttatgtac 360
actgggtccaa agagtcggca agtctgtgct ggtcgggaac attaacatgt ggggtgatcg 420
gatggagacg attctccact ggcagcagca gctgaacaac attcagatca ccaggcctgc 480
cttcaaaggc ctcaccttca ctgacctgcc tttgtgccta caactgaaca tcatgcagag 540
gctgagcgac gggcgggacc tggtcagcct gggccagctg ccccgacct gcacgtgctc 600
agcgaagacc ggctgctgtg gaagaaactc tgccagtacc acttctccga gcggcagatc 660
cgaaacgat taattctgtc agacaaaggg cagctggatt ggaagaagat gtatttcaa 720
cttgtccgat gttacccaag gaaagagcag tatggagata cccttcagct ctgcaaacac 780
tgtcacatcc tttctggaa gggcactgac catccgtgca ctgccataa cccagagagc 840
tgctcgttt cactttcacc ccaggacttt atcaacttgt tcaagttctg aatcccagca 900
catgacaaca cttcagaagg gtccccctgc tgactggaga gctgggaata tggcatttgg 960
acacttcatt tgtaaatagt gtacatttta aacattggct cgaaacttca gagataagtc 1020
atggagagga cattggaggg gagaaatgca gttgctgact gggaatttaa gaatgtgaac 1080
ttctcactag aattggtatg gaaaagcaaa atactgtaaa taaacttttt ttctaacaat 1140
ttgccagcaa gactataagg gcaataatc tatttcagcg gtgaaaatgg agtcctctta 1200
atggtcacag aaactctctt atagttccct aggaagaaaa aggcaaaact caaatacaaa 1260
ataggacgct ttgtttacaa tgtgaaaatt tgtttagaaa ag 1302
```

<210> 67

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 67

```
aattcggcac gagcttctgt tgggtgttatt ttcaattcta tttccagtcg cacaatagag 60
tgatatttaa gcaactccta caggcgaagg ccctgcagtt cctccagatt gacagttgca 120
gactgggcag tgtaaatgag aacctctcag tattgctgat ggccaaaaag tttgaaattc 180
ctgtttgccc ccatgctggg ggagttggcc tctgtgaact ggtgcagcac ctgattatat 240
```

```

ttgactacat atcagtttct gcaagccttg aaaatagggg gtgtgagtat gttgaccacc 300
tgcattgagca tttcaagtat cccgtgatga tccagcgggc ttcctacatg cctcccaagg 360
atcccggtcta ctcaacagaa atgaaggagg aatctgtaaa gaaacaccag tatccagatg 420
gtgaagtttg gaagaaactc cttcctgctc aagaaaatta agtgctcagc cccaacaact 480
tttttctttc tgaagtgaag gggcttaaaa tttcttgga atagttttac aaaaatggat 540
ttaaaaaatc ctaccgatca agatgagttc agctagaagt cataccaccc tcaggaatca 600
gctaagtaat tattacttga ttcttttagc aaatcaatgc acgttatcct acttaatcct 660
taaataagtt tagatttaac taaccctaaag tccaggagga tgttcttaca aaaatagcta 720
tatcaagggc tggcacctag acattaaact gtaatttgaa aataagcaac atgttgcata 780
acttggttga ataattcctt gttctgttta acacttgtca taaattagca gaataaaaaat 840
agtcgtgcaa caccgggggt atctggtatg caacgaaggg raaaatattt cactgattaa 900
ccccgaagtg gttttgcac ttttcttgc ttaatctaag catattatta gagaagtcac 960
accatgctga agctaattgag ggcaaaatgg tagtccatag attattttta aataaccctt 1020
taaggttata aaagttttaa aaaaaa 1046

```

<210> 68

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 68

```

caagagaaga aattatgaaa gggcgtgaat accaagaggc aggttatttg gggccatctc 60
agaggctgcc caacacaggc tactcttttg ccccgatga ttcattgttc ttccaaatgc 120
aaaatgcccc gtcccaagat ctccaaaagt cttatcccat tataggatta gctcagagtt 180
cagaacctta tcatctaaag ttccagggtg aggttaaggct tttgggtgta gttattttat 240
tacagctcct agcacacttc tagtggtata ctaatgcctc ttctgtatag ttcacttgga 300
aataaatgat ntaggtactt tgatccatat ggagttctgt gtaggaagat caacctagat 360
ctgatgttag ctggttaaaca ctgtagtggt aaaaaggcac tgnntatga tagctctttt 420
tgacagtgcac tgggattatg gggcaaatgg taaatggcat gcaattgaga tcagtattag 480
gttattaatt gaactggaat c 501

```

<210> 69

<211> 581

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

<400> 69  
aattcggcac gagggaaaga aggccatgta ggggcttgct ttagtcatcc actgctaact 60  
cattaactat taattcaagc aatatgtatt atagaaccgt tttgtgtagc attggaatat 120  
tgtccatttt gtaagtcatt gtgaatgtnc ttaattatca gcttgaaggc atttttgtat 180  
taaaagttga cattgaagaa cctaagtggg tgatgggatt tggggccagt agtgaaagta 240  
tgtttcctct aaaatatttc cctaaacagt ggtatacatg gttattttat tatgagattt 300  
gtatatgttc tgtgtttctc tgtgaacaat gtttcagtct ctctgtcacc atatgtaagg 360  
ggaagtccac aaatatagac tacattgcac aaaactaaaa ttgttaatta caagaaaata 420  
taggtgctta ccttttgaag gtttattaat acatatgggt gtcacaatac gtatatatga 480  
taaagtgtgt acatatacag atgtttatgg tgtataaatt tttctatacc caaaaaaaaa 540  
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggcccccac a 581

<210> 70  
<211> 1076  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (911)  
<223> n equals a,t,g, or c

<400> 70  
tccaaacaga gggagcagct atttaagggg agcaggagtg cagaacaaac ragacggcct 60  
ggggatacaa ctctggagtc ctctgagaga gccaccaagg aggagcaggg gagcgacggc 120  
cggggcagaa gttgagacca cccagcagag gagctaggcc agtccatctg catttgtcac 180  
ccaagaactc ttaccatgaa gaccctccta ctgttgccag tgatcatgat ctttggccta 240  
ctgcaggccc atgggaattt ggtgaatttc cacagaatga tcaagttgac gacaggaaaag 300  
gaagccgcac tcagttatgg cttctacggc tgccactgtg gcgtgggtgg cagaggatcc 360  
cccaaggatg caacggatcg ctgctgtgtc actcatgact gttgctacaa acgtctggag 420  
aaacgtggat gtggcaccaa atttctgagc tacaagttta gcaactcggg gagcagaatc 480  
acctgtgcaa aacaggactc ctgcagaagt caactgtgtg agtgtgataa ggctgtgcc 540  
acctgttttg ctagaaacaa gacgacctac aataaaaagt accagtacta ttccaataaa 600  
cactgcagag ggagcacccc tcgttgctga gtcccctctt ccctggaaac cttccacca 660  
gtgctgaatt tccctctctc ataccctccc tccctaccct aaccaagttc cttggccatg 720  
cagaaagcat ccctcaccca tcctagaggc caggcaggag cccttctata cccaccaga 780  
atgagacatc cagcagattt ccagccttct actgctctcc tccacctcaa ctccgtgctt 840  
aaccaaagaa gctgtactcc ggggggtctc ttctgaataa agcaattagc aaatcawrwa 900  
aaaaaaaaaa naaaaaagaa aaaaagtgtt ggcctaaatg agtcgtatta cagttgacgc 960  
ggccggcgaa tttagtagat ggtgtaattc gaccgcagaa attccggaac cggaactctg 1020  
aggggtgaca agtttcccca agagcggcgg attaaggctt gggcggacaa agggcg 1076

<210> 71  
<211> 376  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (347)  
<223> n equals a,t,g, or c

<400> 71  
gccacgcgt ccgaggagg ccgcstttcc ggtctgggtc ccsgagagga ctgccttgct 60  
cacctgtccc ctcggcgcgg ccccggggag ctcccgagag gccccmggga tcgctggccc 120  
tccgaactcc acagcaatga gcaagtggg caagtcttt aaagggggcg gctcttctaa 180  
gagccgagcc gctcccagtc cccaggaggc cctgggtccga cttcgggaga ctgaggagat 240  
gctgggcaag aaacaagagt acctggaaaa tcgaatccag agagaaatcg ccctggccaa 300  
gaagcamggc acgcagarta agcgagggat cwgmawaaa tagatgnttt gatgcaagag 360  
atcacagagc aacagg 376

<210> 72  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 72  
aattcgacsa gccagggcac cctgcccattg tatcccamgc agagggagca gaaccagcgg 60  
tgtaactact gtgcttgaca cccagggcag gtcttttttt aactcaccga tcttccatgc 120  
aacaaaattg ttttctgtga aaagcaggaa atgaataaca acagcgtagg tactccactt 180  
caaatttccc aagaaattca gaagaattgt gaacaagttg ctggtttcac aatactgcaa 240  
gacactgcaa gttattccaa gttcctacag gacaacgatg cacaattatt tacttactta 300  
tgtttaaata tacctatcag tttgactttc atcctttggg gacattctaa taatttatgt 360  
aaataattat tcag 374

<210> 73  
<211> 419  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (221)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<400> 73  
aattcggcag agctgcattg tcttttaggg ccaatggact tggaggcata gagattttat 60  
aactactgcc agaaccctaaa tattgccagt sggcctcttc tgctgctgtt gctagctgtc 120  
ttcttctggg ggaaatgggt tgggttctaa atatgaatta acacagggct gtcttcgatg 180  
aattcagcac aaaatgttct cagcaattga acactcggag ngaagtgtta ggcatttagt 240  
gcagactcat agaatagcag gacagggagg gatttggatc tgggcaagca ggagatgggt 300  
atgaacatct gtcttttgag acctgccgag gtggcaatga aggtagaggc ccctgtgttg 360

aggctctttat tcaagaggct gtggtccctt tgggacttaa catagcatcc nttagacag 419

<210> 74

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<400> 74

gcaggcgact tgcgagctgg gagcacttta aaacgctttg gattcccccg gcctgggttg 60  
ggagagcgag ctgggtgccc cctagattcc ccgccccgc acctcatgag ccgaccctcg 120  
gctccatgga gccnggcaat tatgccacct tggnatggag ccaaggatat cgaaggcttg 180  
ctgggagcgg gaggggggcg gaatctggtc gcccaactcc ctctgaccag ccaccagcg 240  
gcgcctacgc tgatgcctgc tgtcaactat gcccccttgg atctgc 286

<210> 75

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<400> 75

```
aggtagaaaa gcgagcagcc gtcctttcac agcctcagaa agtgctcgct tcccttcggg 60
ggcttttcgcg aatcccagag caatctcgna ggcggtatth gacctgtcca aagacgactt 120
gatacctcta taatgtaaca gaaaagggtca gaaaatatta agcaagtaga agtgtggagc 180
atattaagca agatgaacat ctcggaagc agctgtggaa gccctaactc tgcagatata 240
tctagtgact ttaaggacct ttggacaaaa ctaaaagaat gtcagtatag agaagtacaa 300
ggttttacaag taaaagtaac caagctaaaa caggaaacgaa tcttagatgc acaaagacta 360
gaagaattct tcaccaaaaa tcaacagctg agggaaacagc agaaagtcct tcatgaaacc 420
attaaagtth tagaagatcg gttaagagca ggcttatgtg atcgctgtgc agtaactgaa 480
gaacatatgc ggaaaaaaca gcaagagtht gaaaatattc cggcagcaga ntcttaaaact 540
tattaccgaa cttatgaatg gaaaggatan tctaccggga ggaattaaaa gctttctgga 600
caactccgcc ggaattgnga tgntcaccgc thc 633
```

<210> 76

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<400> 76

```
agcacaagtt caggaccagc ctgcgcaaca tagcaagatc cccatctnta caaaaaaat 60
aaacaattag ccagggcata gtggcatatg cccattgtcc catctactct ggaggctgag 120
gcgggaggtt cgaagtacac agaaccacca taaccatcc agctagccag gtagaaggcc 180
tccaggtccg acgttgcatc ccccagggtc tgatgtgtgc tgcaatcttc atccctaggc 240
agwagagcta aaaatg 256
```

<210> 77

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (668)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (673)



<223> n equals a,t,g, or c

<400> 77

```

agcagcaagg ccaagcatgc aagaktcacc atccaccctg gccatgatgc agggcctcct 60
ttgctggacc cgcagccctg caggacagag actggcagcg caccgtcatc gccatgaatg 120
ggatcgaagt aaagctctcg gtcaagttca acagcaggga gttcagcttg aagaggatgc 180
cgtcccgaaa acagacaggg gtcttcggag tcaagattgc tgtggtcacc aagagagaga 240
ggtccaaggt gccctacatc gtgcgccagt gcgtggagga gatcgagcgc cgaggcatgg 300
aggaggtggg catctaccgc gtgtccggtg tggccacgga catccaggca ctgaaggcag 360
ycttcgacgt caataacaag gacgtgtcgg tgatgatgag cgagatggac gtgaacgccca 420
tcgcaggcac gctgaagctg tacttccgtg agctgcccgga gcccctcttc actgacgagt 480
tctaccccaa ctctgcagag ggcatcgctc tttcagaccc gggtgcaaag gagagctgca 540
tgctcaacct gctgctgtcc cttgccggag caaaccttgc ttcamctttc cttttccttt 600
ttggraccam ctgaaaaagg gttggcagag aaggagggca gttcattaag ttccttgcaa 660
aaaacttngc canggttttt ttggccccaa gggtt 694

```

<210> 78

<211> 2562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2556)

<223> n equals a,t,g, or c

<400> 78

```

ggcacgagtg tagacgaagg ctccatatca ccccggaactc tttcagccat taagagagct 60
cttgacgatg acgangatgt aaaagtgtgt gctggggatg atgtgcagac gggagggcca 120
ggagcagaag aaatgcgtat aaacagctcc accgagaaca gtgatgaagg acttaaagtg 180
agagatggaa aaggaatacc gtttactgca acacttgctg catctagtgt gaactctgca 240
gaggagcacg tagccagcac taatgagggg agagagccca cagactcagt tccaaaagaa 300
caaatgtcac ttgttcacgt ggggactgaa gcctttccga taagtgatga gtctatgatt 360
aaggacagaa aagatcggct gcctctggag agtgcagtgg ttagacatag tgacgcacct 420
gggctcccga atggaaggga actgacaccg gcactctycaa cttgtacaaa ttctgtgtca 480
aagaatgaaa cacatgctga agtgcttgag cagcagaacg aactttgccc atatgagagt 540
aaattcgatt cttctcttct tccaagtgat gatgaaacaa aatgtaaacc gaattctgct 600
tctgaagtca ttggccctgt cagtttgcaa gaaacaagta gcatagtaag tgtcccttca 660
gaggcagtag ataattgtga aaatgtggtg tcatttaatg ctaaagagca tgagaatttt 720
ctggaaacca tccaagaaca gcagaccact gaatctgcag gccaggattt aatttccatt 780
ccaaaggccg tggaaccaat ggaaattgac tcggaagaaa gtgaatctga tggaagtttc 840
attgaagtgc aaagtgtgat tagtgatgag gaacttcaag cagaattccc tgaaacttcc 900
aaacctccct cagaacaagg cgaagaggaa ctggtaggaa ctagggaggg agaagccccct 960
gctgagtcgg agagcctcct gagggacaac tctgagaggg acgacgtgga tgggtgagcca 1020
caggaagctg agaaagatgc ggaagattcg tcccatgaat ggcaagatat taatttggag 1080
gagttggaaa ctctggagag caacctctta gcacagcaga attcactgaa agctcaaaaa 1140

```

```

cagcagcaag aacggatcgc tgctactgtc accggacaga tgttcctgga aagccaggaa 1200
ctcctgcgcc tgttcggcat tcctacatc caggctccca tggaagcaga ggcgcagtgc 1260
gcacccctgga cctgactgat cagacttccg gaaccatcac tgatgacagt gatattctggc 1320
tgtttgaggc gcggcatgtc tatagaaact tttttaataa aaacaagttt gtagaatatt 1380
atcaatatgt ggactttcac aatcaattgg gattggaccg gaataagtta ataaatttgg 1440
cttatttgc tggagtgat tataccgarg aataccaact gtgggttggtg taaccgccat 1500
ggaaattctc aatgaattcc ctgggcatgg cctggaacct ctctaaaaat tctcagaatg 1560
gtggcatgaa gctcaaaaaa atccaaagat aagacctaat cctcatgaca ccaaagtga 1620
aaaaaaatta cggacattgc aactcaccct tggctttcct aaccagctg ttgccaggc 1680
ctacctcaa cccgtggtgg atgactcgaa gggatccttt ctgtggggga aacctgatct 1740
cgacaaaatt agagaatttt gtcagcggta tttcggtggtg aacagaacga agacagatga 1800
atctctgttt cctgtattaa agcaactcga tgcccagcag acacagctcc gaattgatct 1860
cttctttaga ttagcacaac aggagaaaga agatgctaaa cgtattaaga gccagagact 1920
aaacagagct gtgacatgta tgctaaggaa agagaaagaa gcagcagcca gcgaaataga 1980
agcagtttct gttgccatgg agaaaagatt tgagctactt gataaggcaa aacgaaaaac 2040
ccagaagaga ggcataacaa ataccttaga agagtcacatc agcctgaaaa gaaagaggct 2100
ttcagattct aaacgaaaga atacatgcgg tggatttttg ggggagacct gcctctcaga 2160
atcatctgat ggatcttcaa gtgaasatgc tgaaagtcca tctttaatga atgtacaaag 2220
gagaacagct gcgaaagagc caaaaaccag tgcttcagat tcgcagaact cagtgaagga 2280
agctcccggtg aagaatggag gtgcgaccac cagcagctct agtgatagtg atgacgatgg 2340
agggaaagag aagatggtcc tcgtgaccgc cagatctgtg tttgggaaga aaagaaggaa 2400
actaagacgt gcgaggggaa gaaaaaggaa aacctaatga aaaaatatgt atcctctata 2460
attagttatg acagccattt gtaatgaatt tgctcgaaag acgtaataaa attactggt 2520
rgcacggtaa aaaaaaaaaa aaaaaaaaaa aaaaanaaac aa 2562

```

<210> 79

<211> 1610

<212> DNA

<213> Homo sapiens

<400> 79

```

aattcggcac agggaaacat tctggtaatt tgtagagatc tgttggcatc tctgcttcac 60
aaactggaaa aaatcatttg taagtcttgc taattacttt tcttggagaa gaaaaaaaaat 120
gctacagttg caaacaatg tatagttttc aaaaagaagc aacttttttg ctccccagtt 180
tattcttagt ttccagccca cgcttgcga tagsratagg catagtgatg gcctcaattc 240
tttctctctt gcatccgtac cttttgctgt gtgactttgc agctcctctc attaaagagg 300
cagagccccc tctcccaccc ataggagcag gttttgagag taacagaatg aagtgaatat 360
gacactgtgc cagttctaa accagccctc aaagggtcat gtgtttctgc ttgctttcac 420
tgtatttgaa atgttgctgt gagaaagaca tctctgaaac agctgaatgg tcctaagaaa 480
aggatgagag atgcaggag cagagctccc aactgaggcc agcctagatc acctaagagc 540
caggccccc gtttactctc atgtgtaagc aataaatgct taccacagca ataccaccaa 600
ggtttggttg tggtttatat acagcattaa tgtggcaata ggtgcaatac accctgttaa 660
acaaaccata cacatatgac tctaacccta atcataaatt gattcagttc gttcagttcc 720
acaacgctgt ttctccaga atctcacaga tgacttacta aatccaacac aaatacacc 780
cagactttct gtctagctcc caaccagtta aaagcaattc taaatatatt ttttcttagt 840
cgtagtgc aaagtatatt tctccctttc tctatagttt tctctcattt tgtcttcaga 900
cctagaagca tgagagccca gctgtcaaag tcatctagac ccccttcaga aggtcattaa 960
atgtgtctat ttcacaggat tgcaagataa aatacagaat gccagtttra atttgaactt 1020
cggataaaca acaaatTTTT ttttagtata agcatatccc atacaatat tgggatatro 1080
ttatatTTTT atattgttta tctgacgttc aagctractg ggcatcctgt atttttctta 1140
gctaaatctg gcaactgtgc tatttcattg aaaacctgaa agtgtacaaa gaaggaagaa 1200

```

gcagaatctg ccatatgagt aatagaagtg agcaggccca ggactcccta agtcaagaaa 1260  
ccaagaggcg tcattacgga aaagagtaac tcaccctgtg tgctccttgg tagttctccc 1320  
tcagcgatgc ccccatgtta tgaatgggga aaagtctact gaagggttca tagtgaagaa 1380  
actttttgga tgatttctgk tgggtgggtt tggatacctt caagggatca gaaaataata 1440  
tacttaggaa attttggtaa tgtcatcatt actctctaca ttattattat gacggttaca 1500  
attgtttaat ctaggtgggt ggtatgtggg ttatatgtga catgattttt aacttgtctg 1560  
catgtttgaa attataataa agtcaataaa taaattattg agacactctt 1610

<210> 80

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (997)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1021)

<223> n equals a,t,g, or c

<400> 80

accagaccac ttgcgccacc acaccaaatt ccgggtggata ccctcmgtca tgttatcaat 60  
cagacgggag gctacagtga tggccttgga ggaaattcac tgtacagtc acataattta 120  
aatgctaata naggttgga ggacgcaaca actccatctt ctgtgacttc tcctacagaa 180  
ggcccaggaa gtgtgcactc ggatacctct aactaatctc tggccacact tttccctgag 240  
ctacatgcct tgataagtgc attcagagca ataggaggaa aaggaaagcg tttttgtagc 300  
ccaccatcta cagctttact gtaaaacctt gtcttattcg agaacttggg aaatctgttt 360  
tttaagggaat cataatcatt tgtattttata cttaaaaaca cacaatgtta aaaaaataa 420  
agcactttat ccaattaggc caagatttaa cattgttgac agtcctgtag ctattttatc 480  
ataatttatt atcaatattt tacattaatg gtttcacagt tgccaattac ttggccttaa 540  
gggtaaaaag tacaatatat actaaacctc aaccgttaaa gcagatgcaa aaattcacct 600  
cacctaaatt gaacttcttg catatttcca ttactgactt ggattgtctt tctttcatat 660  
cactaatgga gttggaataa agagctgttt gcctatccct gttaatgatg gttgtgttta 720  
agaatcttcc tcgtcacgtt tgtgttcaga tctcttatgt tataattaga tcagagactg 780  
gtagcatcgt ttctctctct gaaagcacca gtgccagag tctgctcggg aataaaatta 840  
tggatccaga ttgttctgag agacgaagat acttgctgct gatagagggtg aaaacgagat 900  
tgatccgtct ggggttttac ggtgtgcact ggggtgctgca cagacttgct aaggtttgcy 960  
acgtccyckg ggcaactgma aaggcccgcc cccggngtgt tgtaaaaatg tagccaaaga 1020  
ntatttaaac atcccaccaa ccaaacac 1048

<210> 81

<211> 1136

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1131)

<223> n equals a,t,g, or c

<400> 81

```
ccgactcctc cgacgccgat ccggacagcg gcacagagga gggagatttg ggacttccca 60
ggacagattg acttttttga ccctacattt gactatgaga tgatcttccg gggaacagga 120
gcaactgatg ttgtcattga ctcacaggat gattacatgg aagccctggc caggctccac 180
ctcacggtga ccagggccta caaagtgaat actgacatca acttcgaggt gtttattcat 240
aaagtggatg gtctgtcaga tgaccacaaa attgaaaacc aaagagatat tcaccagagg 300
gcaaacgatg accttgcaga tgctggatta gaaaaaatc acctcagctt ttatctgaca 360
agcatatatg atcattcaat atttgaagct tttagcaaag ttgttcagaa actgattcca 420
caactcccaa ctctggagaa tttgctgaac atctttatct caaattctgg aattgaaaag 480
gcatttctat ttgatgtggt cagtaaaatt tatattgcaa ctgatatgac tccgggtggat 540
atgcaaacct atgagctctg ctgtgatatg atagatgttg ttattgacat ctcttgattt 600
tatggtctca aagaagatgg agcaggaacc ccctatgaca aggaatccac agccatcata 660
aagcttaata atacaaccgt gctttattta aaagagggtg caaagtccct ggctctcgtt 720
tgctttgtca gagaggaaaag ctttgaaaga aaagggctaa ttgactataa ttttcattgc 780
ttccggaagg ccattcatga agtttttgag gtgagaatga aagtagtaaa atctcgaaag 840
gttcagaatc ggctgcagaa gaaaaagaga gccaccctca atgggacccc tagagtgtcg 900
ctgtagggtg ggtttcagga atgtcttttg aaatcagacc ttatccatga ggctgctgcg 960
ccatgttgca ctaaaggaag aggaagaagg agattgggac acataccatt gatttggtgt 1020
taaaaaaaaa aaattcctgc aaccctcttg atcttctctt ttataaataa agtaagcact 1080
ttgaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaangggggg ncccc 1136
```

<210> 82

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<400> 82

```
acagccaaca gggggagcag tgcgagcntg aaggcagaca gtggcctggc ccagtctgat 60
gggagagacc caccgaccct gtggggctgg tccctacatc tggcgctctg acgtggggct 120
ctccctcgct gtgtgaagtt gcaccctgag tgcgggatca gcggaggagt tcaacgagag 180
attcctgagg attgcagtct ataaacttgg tgcaggcggc tgaccccgca gctyaacaag 240
atcaagaggc tgataatcaa gccctcagc ccgaaactca ggctgctcag ggaaaag 297
```

<210> 83

<211> 2150

<212> DNA

<213> Homo sapiens

<400> 83

```
aattcggcag agctcacgag agaggatttg gcgccctcct ctgtggattc tggccaggcc 60
gggttcggcg gttgctgtra gagcgggctt cccaacacca tgccgtccgc cttctctgtc 120
agctctttcc ccgtcagcat ccacgcgtg ctcacgcaga cggactggac tgagccctgg 180
ctcatggggc tggccacctt ccacgcgtc tgcgtgcttc ctcacctgct tgtcctcccg 240
aagctacaga ctacagatcg ggcactttct gtgtctagtc atcttagtct actgtgctga 300
atacatcaat gaggcggctg cgatgaactg gagattatct tcgaaatacc agtatttcga 360
ctccaggggg atgttcattt ctatagtatt ttcagcccca ctgctggtga atgccatgat 420
cattgtggtt atgtgggtat ggaagacttt gaatgtgatg actgacctga agaatgcaca 480
agagagaaga aaggaaaaga aaaggagaag gaaagaagac tgagggggcag cagctgcttg 540
gagtttgctg ccttcccgtc caccagtgcc agctcccagt gctgcagtggt gcgtggcggtg 600
ggcatccttc cagctgactc atggtttgaa aaaccgttgt tttatttaaa tatccacagt 660
ggtagggcac aactgaagt tgcttttcag ccagcactga atgtatccat caggacatgc 720
gtcttcaggt gcctgatctt tgtagtcagg ctgtgggaac ggtctctgca gagcttcata 780
actgggaatt tgatttgaag aagtccatgt catatgtgta actagtacta attataaata 840
taaaatacac aatataaaat atgaaactca ataataaaca gtgccacctg tacatgggca 900
ccatgccctc ctctcgtgc tgtgttttct agtgcatgcc acagttcgca gtagaggggtg 960
ttttcacctt ccaagacatg gggcaaagtt tggagacacc tggttgtcac tggaggggggt 1020
gggtgctctg gcttctctg tggagcccg ggtgatgcat aaaatcctgt gtgcctgggtg 1080
cagccgcata acagacaatg acttgacatg aaatgtcagc tgtgctgggg gcagagagac 1140
cttggaagga agctcttgga aaatacgttg tatctcagtt tgatgaacca attcacaaga 1200
ggctagggcc tctctagcaa agttatgggc tgctttactg aaaacagaat ggaagccctg 1260
aagtcaacac tccatggaga agcgtgtctt tcctaattgtc ctggtgttct gttgatttag 1320
gtgcttgagg acacaatgct ccagttctg ttaggacagg catactgtta ctttgcaata 1380
tccactttat aaaatagctc ctgcccagt gctcttgrtt cctgtcaaat gtggacctgt 1440
agtttaagaa tgacaggttg ttagagaccc agatatttaa aaatagggtg tcaataaggg 1500
aatactgatt gtgcattgta tctggatagc atgcctaatt gtgcatttct gaaagttacc 1560
aattcaaaat gtaattggaa cagttatctt tgattagaca agcctgggaa gagaatgttg 1620
aggtgcagag ctcaccagcc aagttcatgc ccctctcggg cctttgtggc tgagaagtg 1680
gacagaaaga tgattaaggt aatgtgtcct ccctgtagca ttgtccaggg ccgttgtgta 1740
gatatttgac ttcactgaca gaaaagaaac cagggagttt gtagagactg tgcattttta 1800
gtataacatt ttcaccatct gatatggttt ggctttgtgt cccacccaa attgcatctc 1860
aaattgtaat ccccatgtgt caaggagggg acctgatggg aggtgatggg atcatggggg 1920
tggtttcccc tatgttgta tcataataga gagggagtgc tcacaagatc tgctggtttt 1980
aaagacagca gtttcccctg ctgtcactgt ctctctcctg ctgccttggt aagaagggtgc 2040
ttgtttctcc ctctgccatg attgtaagtt tcccagctc cccggccatg tggaactgag 2100
tcaattaaac ttcttgttta taaagtaaaa aaaaaaaaaa aaaaactcga 2150
```

<210> 84

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (505)  
<223> n equals a,t,g, or c

<400> 84  
ttgtgtgcca ggggtggtcc ccagaaggag ctgatctgaa caggccggag agtaggaccg 60  
gccgtnacac cccacacct ccagcctcgg cccactcct tgggctctta aggtcctgcc 120  
tcaagaacca ctctctgagt cttagtgtat gtgtgtacaa aagaatgaaa gaagtctcta 180  
gagctaaagg aaggagatyc gggctgggct gagaagcatc ttccaggatc acggscttcc 240  
cgcgggacac accaagccca ttccggatct tgctcttctt gaccatggyt ggcaggytgt 300  
ggaggaggas cggagagcag aagaaaggag tattcatcag gttccttatt gtgctgccac 360  
tagatgccag gcatgtgctt aggcctgggg ggctgcaagg agaggaagac agcggccctg 420  
ccctytgyta gcaggcagaa ccgagttytg gccacamtgt gaaggaaaagg cagaagcctg 480  
cgktggcary tggtttaagc tcagngggca gggaaaaggga agaggagaat ggttttcacg 540  
gagcagaagg ttgtgctcaa ggtggacctt ggagaataaa ggggagagct ccagggaaca 600  
g 601

<210> 85  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 85  
cgcgctgacg ttctctcctaa ctctgcccag aaacrgctct cctcaacatg agagctgcac 60  
ccctcctcct ggccagggca gcaagcctta gccttggtt cttgtttctg ctttttttct 120  
ggctagaccg aagtgtacta gccaaaggat tgaagtgtgt gactttggtg tttcggcatg 180  
gagaccgaag tcccattgac acctttccca ctgaccccat aaaggaatcc tcatggccac 240  
aaggatttgg ccaactcacc cagctgggca tggagcagca ttatgaactt ggagagtata 300  
taagaaagag atatagaaaa ttcttgaatg agtccataaa acatgaacag gtttatattc 360  
gaagcacaga cgttgaccgg actttgatga gtgctatgac aaacctggca gccctgtttc 420  
ccccagaagg tgtcagcatc tggaatccta tctactctg gcagcccatc ccggtgcaca 480  
cagttcctct ttctgaagat cagttgctat acctgacctt tcaggaaactg ccct 534

<210> 86  
<211> 1037  
<212> DNA  
<213> Homo sapiens

<400> 86  
tgctgactca tctatagaag gaaactacac tctgagagtt gattgtacac cgctgatgta 60  
cagcttggtta cacaacctaa caaaagagct gaaaagccct gatgaaggct ttgaaggcaa 120  
atctctttat gaaagttgga ctaaaaaag tccttcccca gagttcagtg gcatgccag 180  
gataagcaaa ttgggatctg gaaatgattt tgaggtgttc ttccaacgac ttggaattgc 240  
ttcaggcaga gcacggtata ctwaaaattg gggaaacaaa caaattcagc ggctatccac 300  
tgtatcacag tgtctatgaa acatatgagt tgggtgaaaa gttttatgat ccaatgttta 360  
aatatcacct cactgtggcc caggttcgag gagggatggt gtttgagcta gccaatcca 420  
tagtgctccc ttttgattgt cgagattatg ctgtagtttt aagaaagtat gctgacaaaa 480  
tctacagtat ttctatgaaa catccacagg aaatgaagac atacagtgta tcatttgatt 540  
cacttttttc tgcagtaaag aattttacag aaattgcttc caagttcagt gagagactcc 600

```
aggactttga caaaagcaac ccaatagtat taagaatgat gaatgatcaa ctcatgtttc 660
tggaagagc atttattgat ccattagggt taccagacag gcctttttat aggcatgtca 720
tctatgctcc aagcagccac aacaagtatg caggggagtc attcccagga atttatgatg 780
ctctgtttga tattgaaagc aaagtggacc ctccaaggc ctggggagaa gtgaagagac 840
agatttatgt tgcagccttc acagtgcagg cagctgcaga gactttgagt gaagtagcct 900
aagaggattc tttagagaat ccgtattgaa tttgtgtggt atgtcactca gaaagaatcg 960
taatgggtat attgataaat tttaaaattg gtatatattga aataaagttg aatattatat 1020
atagttaaaa aaaaaaa 1037
```

<210> 87

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<400> 87

```
gcggccctac tactactaaa ttgcgggcnc gtcgacaagg agtcctgctt atcacaaatga 60
atgttctcct gggcagcgtt gtgatctttg ccaccttcgt gactttatgc aatgcatcat 120
gctatttcat acctaattgag ggagttccag gagattcaac caggaaatgc atggatctca 180
aaggaaacaa acaccaata aactcggagt ggcagactga caactgtgag acatgcactt 240
gctacgaaac agaaatttca tgttgacccc ttgtttctac acctgtgggt tatgacaaag 300
acaactgcc aagaatcttc aagaaggagg actgcaagta tatcgtggtg gagaagaagg 360
acccaaaaaa gacctgttct gtcagtgaat ggataatcta atgtgcttct agtaggcaca 420
gggctcccag gccaggcctc attctcctct ggcctcta atgtcaatgat tgtgtagcca 480
tgcctatcag taaaaagatt tttgagcaaa maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anggngngcc gctctag 597
```

<210> 88

<211> 474

<212> DNA

<213> Homo sapiens

<400> 88

```
aatccttaac ctctgcatt ttagaaatac tccagagctt gtcttattct taccaaaatt 60
cctgtaggcc tttgactcct gactcaccct gtctgcagtg tccccagcc tgcaggggtg 120
ggtgwgac agcaaccctc agccaccagc tgttttccat ctgccggcct tcctggggga 180
gagtccttc cagctgtagc ccctgtctat gggaaaagtc tcatgtcctt ttcactctct 240
```

```
cccactgcac actgtctctc accctagact ataattcaag tgaatttgac ctccatttat 300
tggacaagcc aggsactgtg ctaggrataa tgwaaacccat tagacaaatc tgaaagggag 360
ggatcactag actaaggggt agaaatgtgg agatgggagt aactttctgc atgtccttgc 420
aggagggtggc atgtgagaaa gctttttgga agaggtggca cctggagctg tgga 474
```

<210> 89

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 89

```
agactttgaa atcagaggaa ttccagaaga ggctgcaccc ttataaggat tttatagcta 60
ccttgggaaa acttttcagga ttacatggcc aggacctttt tggaatttgg agtaaagtct 120
acgacctttt atattgtgag agtgttcaca atttcacttt accctcctgg gccactgagg 180
acaccatgac taagttgaga gaattgtcag aattgtccct cctgtccctc tatggaattc 240
acaagcagaa agagaaatct aggctccaag ggggtgtcct ggtcaatgaa atcctcaatc 300
acatgaagag agcaactcag ataccaagct acaaaaaact tatcatgtat tctgcgcacg 360
acactactgt gagtggccta cagatggcgc tagatgttta caacggactc cttcctccct 420
atgtctcttg ccacttgacg gaattgtact ttgagaaggg ggagtacttt gtggagatgt 480
actaycgaa tgagacgcag cagagccgt atcccctcat gctacctggc tgcagcccca 540
gctgtcctct ggagaggttt gctgagctgg ttggccctgt gatccctcaa gactgggtcca 600
cggagtgtat gaccacaaac agccatcaag gtactgagga cagtacagat tagtgtgcac 660
agagatctct gtagaargag tagctgccct ttctcagggc agatgatgct ttgagaacat 720
actttggcca ttacccccag ctttgaggaa aatgggcttt ggatgattat tttatgtttt 780
agggaccccc aacctcaggc aattcctacc tcttcacctg accctgcccc cacttgccat 840
aaaacttagc taagttttgt tttgtttttc agcggttaatg taaaggggca gcagtgccaa 900
aatataatca gagataaaagc ttaggtcaaa gtccatagag ttcccatgaa ctatatgact 960
ggccacacag gatcttttgt atttaaggat tctgagattt tgcttgagca ggattagata 1020
aggctgttct ttaaatgtct gaaatggaac agattttcaa aaaaaacccc acaatctagg 1080
gtgggaacaa ggaaggaaag atgtgaatag gctgatgggc aaaaaaccaa tttacccatc 1140
agttccagcc ttctctcaag gagaggcaaa gaaaggagat acagtggaga catctggaaa 1200
gttttctcca ctggaaaact gctactatct gtttttatat ttctgttaaa atatatgagg 1260
ctacagaact aaaaartaaa acctctttgt gtcccttggc cctggaacat ttatgttctt 1320
tttaaagaaa caaaaatcaa actttacaga aagatttgat gtatgtaata catatagcag 1380
ctcttgaagt atatatatca tagcaaataa gtcacttgat gagaacaagc tatttgggca 1440
caacacatca ggaaagagag cmccacgtga wggagttyt ctagaagcty cagtgataag 1500
agatgttgac tctaaagttg atttaaggcc aggcacg 1537
```

<210> 90

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)



<223> n equals a,t,g, or c

<400> 90

```
tgacaccatg cctgggtaat ttttttaatt ttnattttca gtagagacaa ggttgcgcta 60
tgttgcccg gctggatatg aactcctgtg cttaagcgg cctcatgcct cggcttccca 120
aagtgtgag gttgcagcta tgagccaccg caccagcct acattccttc ttatcaccga 180
gaaacagggt gatcttcaca ggtgtaatga gtatgaagg agtgccataa agatattttt 240
tattttttat ttatttttt ttttaattta ttttttttt tttgggatgg gngtcttgct 300
ctgg 304
```

<210> 91

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<400> 91

```
ggtagagatg gggctctgct atgttgacca ggttggtctc aatctnctgg tctcaggcca 60
tccttccacc tcattctccc caagaactgg gattacaggc atgagcaact gcacctggct 120
catatgcttc ttatagttga agaagtgaag ggtcaatgac ttactaaaa tactattaaa 180
gtaataaagc taggacttag cccaattat tcctccttaa agtccaatac tttcaatata 240
ttaagttgct ctttattata tgaattctaa atatcttttt taccttttgt tatctaattct 300
ggaaatccta tataaatgta taattttata catgctgact gatatccyct ctagtcttgc 360
tatactagg 369
```

<210> 92

<211> 315

<212> DNA

<213> Homo sapiens

<400> 92

```
gctttttacc ctctccaaac cttctaacc tagcttcatg aatttatgtt actgcctag 60
agggctctct ataaatatat acatttgtaa cttctgttta atataaataa atcattcttc 120
atagcaagga ttctggcatc agttggagat tctttggatg gatgtgctcc catggagttt 180
ctattttaat gtactaacia cttatgactc gtctatctgt agtatcaatt atatccacta 240
tcacagtaac agtcaccact taatatgyat agratatctc attttaccac gcaattatgg 300
tatctctgat ttata 315
```

<210> 93

<211> 701

<212> DNA

<213> Homo sapiens

<400> 93

```
aacattacaa gggctttttat aaaaaaccct ttgttcatat ttcttccctt taaaatatgt 60
aatgtcaaaa atgactcacc ttttaaaaat tatgcatgaa aacagggtgg aaacattcag 120
taatacgcta tttctccaac atcaagacaa ctaaaacaaa tgataaaaat gtttattttt 180
```

```
acactccagc atatacgggtg agtttttaggg atgtgtatga atattttaa attttaattt 240
cagttttaat gaaagctgaa cttaataggg aaagctagct cttggtaact agcaatgatc 300
aggcattggt tgcctctgtc aggttttctt atctgtttta ggtacatttt ttcagattct 360
gattgtttga gttaatgggt gaatttttaa agtttttagt tacttaaaat akgtatttaa 420
attrcatatt aatttagaaa attcctgtgt ttacttatat tttaaattgt gaaatggatc 480
caatcattag aacagagaga atagtctttt gaaactgaaa tactttagtt ttactgacct 540
tgtgtaaaaga taatatgaag aaccagcttc caaaagaaac cagcatatgg cactataaac 600
tatttcattt gagcaccatt cttaccatg gatataattt ttatgtatta tagtggagtg 660
atcatacagk tcccccaaat gtgatgggtc aagggaattt a 701
```

<210> 94

<211> 459

<212> DNA

<213> Homo sapiens

<400> 94

```
cgggcaactc tctggcatcc ttaatatctt tctatagaaa ttgtgatgaa agaacagata 60
agcctaagta aatctagcgt gtggagctcc tttaaaatgt gaagaccttg ccawctgggt 120
aaaaataaaa cttgggttttg tcctaaatat ccttgctggg cctattatac ataaaaaaag 180
gggccacagc ccatttgcaa ggcttctgaa tgaactccat tcattctgta cttggaaatg 240
tctcttcagc cacaaaaaga acaatagtta taacctaat tctttgtgtc catatcagca 300
gaagaagagc caagagacca ttatgaaaac tctagtaagt tctcttggtg attatataat 360
gctgtawtca ttgatcatat tkctgtatct aaataagtac atttttttaa acatcataaa 420
gtggatcagt aatgctgtaa tatcacattt catgtatta 459
```

<210> 95

<211> 2589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2568)

<223> n equals a,t,g, or c

<400> 95

```
ggcacgaggg ctgccccttt gggttccagc cgggggtcacg tccagcctcc actgggaaac 60
cagtgaactga ggccctggacc cagaggtgga ccaggcatct cctggccacc tgtgacctgg 120
gaagaagcga gtcagtggcc cgttcaacct gctctgcagc tgctataaat agcctccctg 180
tttccaagag gaggtaagga agtggtttatc ttctaaaaac cagacgtttc ctgatgctct 240
gagcgttact cagtgtctaca gaggagatgc acacgtcccc actatgttct gtcttgagaa 300
ggggacaaga gaaagaggaa aaggagccac tgtactttat ttgacacta cagcgtgcct 360
tggcactggg ctagagagggc accttcctgc gtgaatcctg tgcggcaggt cttattgcca 420
taataagtca catcaaagac actgctggtc ataaaacact gttttacata ccatagggaa 480
aaacgctgcc aatcttaact aagatgctac aactgtacag ttcttccaa tcagagatgt 540
tcacgtgtga aaaaaaaact gtgctactta caatctatga aagctggtrt tatcccactt 600
```

ggcaggtaag ggaactgagg tcctgtgagt gaagtgacct catgatcaca caacaggaga 660  
tggcagggct gggattcaaa cccgggagtg tctgctgcca catccacac tcccactgcc 720  
tggctccaag tcccaggaag ctcgagactg tgagttttct cccctgaaac tcacctggag 780  
agagtccggg cacctgtgcc tatgtggagg gttccagccc cagccaggcc cctccgctgc 840  
ccacaccctg ggaggagaag cggcctccct tccaggctca tctgctcact gcccgcatte 900  
tcctggcaga gctgaggtct gagagatctg gactccaacc caagggccct ctcttgttat 960  
tcaggggtgt ccacagttag gragggacct ggggccttgt cccaccacct tcctaggccc 1020  
cgtgatcacc accccctcaa gcggggcccc agcccnctga gcacccctc acgtgaccca 1080  
gccctcggct gttccaggct cactgcccac ggtgtgctct tctgggccac agcagccagg 1140  
gtccagggc gaggacrggg gacacctgaa aacaccccg tgttcattgt cttgtgcccc 1200  
ttcattcgga gactcctgaa aaactgggct gtttgcaaag caaatccagc tccttgctct 1260  
agcaggttct cagaamgggg agtcccctgg gaatggagct gctcccctca cggcagcacc 1320  
acgtttccag tcctcogatg ccactaatca gcatggactg tggttcaggac acaggggtgaa 1380  
cttttctctg acccccgggtg ctggtcctgt gccagcacgt agtagttamt cagtagaggt 1440  
ttgctgagta aaccagaaat cagattatga gtgttcaggg gtttgataaa acagcaccac 1500  
ataacgcaca caaagatact ccagaaacat ttgctgagta cctagtacgt gtgaggtgct 1560  
gtgaggatag agcagagagg actgtgcccc agctgtgatg ctggcagagg tgacactaag 1620  
agggaaatga gatatttggg gcagaatcca ctgggctctc ttggccatcc gctgccttgg 1680  
gtctgttgag gtgggtgccc aaaggctgcc ttcttgacca gaacctgctg tgcgcttcac 1740  
agaacctcct cttcattgga aatgctgggc acattgcagt cagttagctg ctgccccaac 1800  
ggcgttaagt agaacccccca gaggccccgc cggttggtga tcacctcag gtccctgccag 1860  
ggagacacag tgaggagggt ggctaattgc tgctttcagg ccttggaat cagtcgcca 1920  
ggcccaggag aaccccggtg agtccgtcca gttgaggcag aggcaataac ctcccattgc 1980  
tcggccctgc gcctgccccca gtctggcag ggggcaccgc ctcaggaaca tgcggcctcc 2040  
tggmatttct cggtatttaa ctgtctcgt gtcttatccg agtccctaata gaaacgactt 2100  
gtgtgacaat ctgtctgtgc cttacgaaag tgtctgtgca ctttttatcc tttttaaaag 2160  
caacttttaa aagtggatgg ggaggggggc tagcatacgt ggtagggttc tagaaatctg 2220  
tggctcatgc tgaatccctt tttgcatcat gttttttgat gttggagtga tgaagtgtac 2280  
atccccacc ccacacacca ctacctgtgt acagacctt taaaacatgt cttctttttc 2340  
tgattcaata ctgtgacctc tccgatacag tctaatactt ggggatctgt aatcaagggt 2400  
ttaaaccctg ggaagtgggt tgggaagggt ttgcactggt cttgagtgtt gtgcttttct 2460  
gtgtgtgtgt ttttgatttt tgtottttta tctgttttat attgacataa ttttcctgtt 2520  
taaaaaata caactttggc ttgttaaaaa aaaaaaaaaa aaaaattnct gcggtcgca 2580  
agggaattc 2589

<210> 96

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (442)  
<223> n equals a,t,g, or c

<400> 96  
gagcacatct ggctctccat atgggaccgg ccgcctcgta gctgtttcac tcgcatccag 60  
agggccacct gctgcgttct cctcatctgy ctcttcctgg gcgccaacgc cgtgtggtac 120  
ggggctgttg gwgactctgc ctacagcacg gggcrtgtgt ccaggctgar cccgctgagc 180  
gtcgacacag tcgctgttgg cctgggtgcc agcgtgggtg tctatcccg taccctggcc 240  
atsctctttt tcttcyggat gtcccggagc aaggttatca atactctggc tgaccatcgt 300  
catcgtggga ctgacttttg tggaagtcct tggttactta tcattaactg tgtttctgag 360  
aagttataaa tntggcatct cctnctgcac aacttacctt tgggttataa taatctggtg 420  
accatcgtca cgttggactg antttggggg aagcctt 457

<210> 97  
<211> 516  
<212> DNA  
<213> Homo sapiens

<400> 97  
agctcccacc agcctccttt ttattttttt gtacagatgg ggtcttgcta tgttgcccaa 60  
gctggtctta aactcctggc ctcaagcaat ccttctgcct tggcccccca aagtgtggtg 120  
attgtgggca tgagctgttg tgcccagcct ccattgttta atatcaactc tcaactcctga 180  
attcagttgc ttgcccgaag ataggagttc tctgatgcag aaattatttg gctcttttag 240  
ggtaagaagt ttgtgtcttt gtctggccac atcttgacta ggtattgtct actctgaaga 300  
cctttaatgg ctccctctt tcatctcctg agtatgtaac ttgcaatggg cagctatcca 360  
gtgacttggt ctgagtaagt gtgttcatta atgtttatct agctctgaag caagagtgat 420  
atactccagg acttagaata gtgcctaaag tgctgcagcc aaagacagag cggaactatg 480  
amaagctctc ctgccatctc caagcccact tttcag 516

<210> 98  
<211> 314  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (271)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (299)  
<223> n equals a,t,g, or c

<400> 98

ggagaccgcg cgcgggacgg ggaggaatgg cctgtccgcg ttaaaccatc acaagccatg 60  
gttgcggaag ggccacgcgt cccccagtag gagaatgact ccgattcgtg accctcagcg 120  
ccggtgcatg tcgactcttg cccccagggc tgtgatgcag ccagccaggt ctcagggaga 180  
gggaaccacg aagcctggca tgctggccaa aggagtcaag gaaacttttg agctatttac 240  
agcttgtagc aattatgtaa agnatactcc nctgaacaaa atttgagca tgtttggtnc 300  
tctctacctg attt 314

<210> 99

<211> 679

<212> DNA

<213> Homo sapiens

<400> 99

agttgttccg tgtaggctgt tgttgactct cgtatgaaag cccacgcgat ccaagtgcc 60  
tgcaggtttt ggtccaggga aaagttggtc tctgcagatg actgtaaatg actacctgga 120  
ggtcgattaa agtgcggtac tgcgggattc arccgatttc cttcttcctc tgactgccc 180  
gaaatatcag ccaaaggcca gcgttctaag gacatatgga attggctatg gataattcat 240  
atgctttcaa tcaacgaagc acatgtaatg gaattccatc tgagaagaaa aacaacttcc 300  
ttgtatcaga agatcatgga caaaaaatct taagtgtact acagaatttt agagaacaaa 360  
atgtctttta tgatttcaaa ataattatga aagatgaaat aatcccgtgt catcgttgtg 420  
tgttagcagc atgcagtga cttttcaggg ctatgtttga agtaaaccatg aaagaaagag 480  
atgatggaag tgttaccatt actaatttgt cctccaaggc agtaaaagca tttctcgatt 540  
atgcctatac tggaaaaaca aaaataacag atgataatgt ggaaatgttc ttccagttgt 600  
catcatttct tcaagtttcc ttccatatcca aagcttgagc tgacttttta ataaaaagta 660  
ttaatcttga aaaaaaaaaa 679

<210> 100

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 100

aattcggcac gagtctcacc cctcggagac gctcgcccga cagcatagta cttgccgccc 60  
agccacgccc gcgcgccacc accatgctag gtaacaagcg actggggctg tccggactga 120  
ccctcgccct gtccctgctc gtgtgcctgg gtgcgctggc cgaggcgtag ccctccragc 180  
cggacaaccc gggcgaggac gcaccagsgg agggacatgg ccagatacta ctcrgcgctg 240

cgacactaca tcaacctcat caccaggcag agatatggaa aacgatcyag cccagagaca 300  
ctgatttcag acctcttgat gagagaaagc acagaaaatg ttcccagaac tcggcttgaa 360  
gacctgcaa tgtggtgatg ggaaatgaga cttgctctct gcccttttcc tattttcagc 420  
ccatatttca tcgtgtaaaa cgagaatcca cccatcctac caatgcatgc agccactgtg 480  
ctgaattctg caatgttttc ctttgtcatc attgtatata tgtgtgttta aataaagtat 540  
catgcattca aaaaaaaaaa aaaaawaaaa aaaaaaaaaa acnngggggg gggcccccgn 599

<210> 101

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (232)

<223> n equals a,t,g, or c

<400> 101

gggggcggga aggcgtgacc gccatgcaca agctctttga ctgggccaat accagccggc 60  
gcgggaggag ataagcaagg acctcagagc cacactgaac gccttcctgt accacatggg 120  
ccaacacagc aacaaattca tgctggtcct ggccagcaat ctgccctgagc agttcagactg 180  
tgccatcaac agccgcattg acgtgatggt ccaacttcgac ctgccgcagc angaggagcg 240  
ggagcgcctg gtgagactgc attttgacaa ctgtgttctt aagccggcca cagaaggaaa 300  
acggcgcctg aagctggccc agtttgacta cgggaggaag tgctcggagg tcgctcggct 360  
gacggagggc atgtcgggcc gggagatcgc tcagctggcc gtgtcctggc aggccacggc 420  
atatgcctcc aaggacgggg tctcactga ggccatgatg gacgcctgtg tgcaagatgc 480  
tgtccagcag taccgacaga agatgcgctg gctgaaggcg gaggggcctg ggcgcggggt 540  
cgagcacccc ctatccggag tccaaggcga gacctcacc tcatggagcc tggccacgga 600  
cccctcctac cctgccttg ccggccccctg cacatttagg atatgctcct ggatggggac 660  
tggtctgtgc ccagggcctc tgtccccag gatgtcttgt ggtggcggtc ggccgttctg 720  
ccccccaggg caccocctgt tgtaggcact ggctaggagg gggcaggcct ccttcctgcc 780  
cctcagagaca ctcttgagg atgcattttc cgtctggctc acagggggag ggtgaggctt 840  
tgtaccccag cccctgcccc ggcactgtg aggggtgggtg ctggctgagc cctgggggca 900  
gaaggagtgg ggcaggcggg gtctttgttc tcggctccca cagcagagcc aggtgagggg 960  
gggcctgcca ggactagaca gaagtggggc ggccctgaacc ctgcttcag ccattggccag 1020  
gggccacgga acccggcagg ggtgtctgag gccgcctgt cagctggccg gtccaagcct 1080  
gtggctggag ctgggtgtgtg tttatctaataa aaagtccac aggtgcctca aaaaaaaaaa 1140  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1189

<210> 102

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<400> 102

gccaatattga tgaagtgcaa agttcaggcc ggtatgattt tnagtgtctg caaagataaa 60

```
agcttcgatg atgaagaatc agtggatgga aataggccat catcagctgc atcagccttc 120
aaggttcctg cactaaaaca tccggaaatc ctgccaacag tgcaagggaag ctgggttcagc 180
aggtggccct aaggttkgag gttstaaatc catttcaatc tgttatgctg gtccatggcc 240
ttgatattgg c 251
```

<210> 103

<211> 458

<212> DNA

<213> Homo sapiens

<400> 103

```
gggaggcttt ctgaattatg ggggcaacat ggggagactg ggctttctgt ggaccatgac 60
agctccgcag ccgtgctggg ctctcagct ccactgtcag ggctaggaat tggccacaga 120
acccccagag ccaaccctgg ggcccactag gaccccaaac acctgtgttt tcattctgcg 180
tggcctcctg gttccctgga gttctttttt atgctgcctc tgggtgagag tcctcagcat 240
ttaatttggt ctaagtttaa aagctgcaag agcaaaacag aacccccaaa gcctggggcc 300
cacagctgct ggggctgac agagatacga cccagagga ccacgtccac cargggccgg 360
atggacagcc acctattttg tamtcctgt ttcaaaagca acaatagcaa ataacattcc 420
aaaagttcta tgatragact tcaagacact aggattta 458
```

<210> 104

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 104

```
tgtgtgtccg cgcaggcgag caccgcgccg gccctgagcc tcccgtctgc tccccacggc 60
cgcggtgcat gttcgctcc tgccactgtg tgccgagagg caggaggacc atgaaaatga 120
tccacttttcg gagctccagc gtcaratcgc tcagccggag atgagatgca ccacccggct 180
gctggacgac tcggagatct cctgccacat ccagaggga accaaagggc agtttctcat 240
tgaccacatc tgcaactact acagcctgct ggagaaggac tactttggca ttcgctatgt 300
ggacccagag aagcaaaggc actgggcttg aacctaacia gtccatcttc aagcaaattg 360
aaactcatcc accatacacc atgtgcttta gagtgaattt anccacatga acccttgaag 420
attaaagaag actcacaag 439
```

<210> 105

<211> 233

<212> DNA

<213> Homo sapiens

<400> 105

```

tcccaaagtg tggggattat aggcattgagc cactatgccc agcctacttt tgtttttaag 60
aaattgaaac gatataaaaa agtacaaaaga acaacctaat aaacactcat attccccacca 120
ctcagaatta tcaacttttt atcattttat catatttgct tcagatcttt ttttttttta 180
aagaaaagta taacagattt agctaaagta ccccttgacc aataccccac ccc 233

```

<210> 106

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 106

```

ggcagcgggtg gccgaggcct cttggttctg cggcacgtga cggtcgggcc gcctccgcct 60
ctctcttttac tgcggcgcg ggaaggtgt gcggcgggga aggggcacgg gcacccccgc 120
ggtcocyggg aggctagaga tcatggaagg gaagtgggtg ctgtgtatgt tactgggtgt 180
tggaactgct attgttgagg ctcatgatgg acatgatgat gatgtgattg atattgagga 240
tgaccttgac gatgtcattg aagaggtaga agactcaaaa ccagatacca ctgctcctcc 300
ttcatctccc aaggttactt acaaagctcc agttccaaca ggggaagtat attttgctga 360
ttcttttgac agaggaaactc tgtcagggtg gatatttatcc aaagccaaga aagacgatac 420
cgatgatgaa attgccaaat atgatggaag gtgggaggta gaggaatga aggagtcaaa 480
gcttccaggt gataaaggac ttgtgttgat gtctcgggcc aagcatcatg ccatctctgc 540
taaactgaac aagcccttcc tgtttgacac caagcctctc attgkctagt atgaggktaa 600
tttccaaaat ggaatagaat gtggtggtgc ctatgtgaaa ctgctttcta aaacaccaga 660
actyaamctg gatmakgtts agaggactat aaactgcctt catn 704

```

<210> 107

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 107

```

ggaatacccc ctactttctg tggcttcttt cctgtagtag acgatcaagg gtggaatcta 60
cagtccatgg gccctgactt cttgccttcg tctcaaatag actctgcagc cagccatcta 120
tgcagcggcc cagtggcttt gaaatgcaac agaaaccatc acccccggac catgggctcc 180
atgccagtgg gcaaagcaca ggtgcgttca ctgagttccc agcacatagc tgtggcaggc 240
acttgggtgat atttgaaat aaaagaatgg aagaatgtgt ccaagctgtg cttccccctt 300
ctaccttact cagggacatg gtgccctcct ctctgggttyc ctgccctgtg ccamcccccg 360
scccctgcaa gcacagytct tatgtgcaaa gccctgtaa gtgctggagg gattactgat 420
ggcttngggg aagtggcaat gggat 445

```

<210> 108

<211> 592



<212> DNA

<213> Homo sapiens

<400> 108

```
accataaactg cacaagata gaaacagga cttctgtgct ccttgagctt cacgtgttaa 60
cctggctccc cagaccaaag accaacaccg caggggtgagt tcatcctctg ccaacagcaa 120
tctttccctt cctctgaggc cagccatccc catcccagga ggaggggaa gcaagcccgg 180
ggagggcagg agagctccca gctcagtga gacgtccac cggccccgaa gcacctccct 240
tgctcacagc tcrgasccca gcttctccct gctgcmaagr taactgcagc yttcagactg 300
acttccatgc cctctagct agggscatc acttcaagtt caggcgccaa aaaccaagaa 360
agtaaatac acttcataga ctttatttac cttaaaaaat tcctgagttc attcatgtct 420
ccaaaccact agagaacctg aaaattcacc aggaaattgg gcaactgcaa gttatcctgg 480
agactccaga gtcaacctt cattaaatga gaacaatctg gttcatgcgt tgaagctgtt 540
acagtaatca gggcgacatg ggcaggggaa gcgatttttc tgaagctgtg cc 592
```

<210> 109

<211> 381

<212> DNA

<213> Homo sapiens

<400> 109

```
tcaccttgta gagaagaaag tcaacagata atttctaaat tggaaaatca ggaaattaca 60
gtcattataa gagatataat gggaggatat aaataccaga ataaaaagat aaaagagatg 120
aaaatagtag tctctgggga gctaaagtct aaaatacaaa ggtgtgaggc agaccttata 180
tactacttaa cttgtatact atttatagcc cagtattctg ttttctagac ctgtccaggc 240
gttaagggat ccaatctatg aaccagcaga gacccaatga ctaaagmcaa actttgctgc 300
acactgaaat cacctggggg aatcttttaa aaagtactga cgcttgactc ccaccacaaa 360
acagtctgat ttaattgggc a 381
```

<210> 110

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<400> 110

```
ctgtccctgc actccgtggc ggaaggcggc tagagcggct ccctctgagc tctccgagag 60
attggctcgg acctgaagcg ttgaggtaa gggcaaggca aggagcaacg aggagttttt 120
cgttacgtta gaaaaatttc gttgcgtgct gaaagcgctt ttacctgtgt tgtatgattt 180
aaccttatga aaatggacag tatttccagt tttacaagtg aggaaagaag attaagaaac 240
ttgcctccgc cangcgtggg ggttccactc ctgtaatccc agcactttcg gcggccgaag 300
caagcggatc acttgaggtc angagtcca agaccagcct gggccaaaca t 351
```

<210> 111  
<211> 1583  
<212> DNA  
<213> Homo sapiens

<400> 111  
gggggcccga ggagatgacg gccggcggcc agggcgaggc cgagggcgct ggcggggagc 60  
ccggcgcggc gcggctgccc tcgggggtgg cccggctgct gtcggcgctc ttctacggga 120  
cctgctcctt cctcatcgtg cttgtcaaca aggcgctgct gaccacctac ggtttcccg 180  
caccaatttt ccttgggaatt ggacagatgg cagccaccat aatgatacta tatgtgtcca 240  
agctaaacaa aatcattcac ttccctgatt ttgataagaa aattcctgta aagctgtttc 300  
ctcwgccctct cctctacgtt ggaaaccaca taagtggatt atcaagcaca agtaaattaa 360  
gcctaccgat gttcacogtg ctcaggaaat tcaccattcc acttacctta cttctggaaa 420  
ccatcatact tgggaagcag tattcactca acatcatcct cagtgtcttt gccattattc 480  
tcggggccttt catagcagct gggctctgacc ttgcttttaa cttagaaggc tatatttttg 540  
tattcctgaa tgatatcttc acagcagcaa atggagttaa taccaaacag aaaatggacc 600  
caaaggagct agggaaatac ggagtacttt tctacaatgc ctgcttcatg attatcccaa 660  
ctcttattat tagtgtctcc actggagacc tgcaacaggc tactgaattc aaccaatgga 720  
agaatgttgt gtttatccta cagtttcttc ttccctgttt tttggggttt ctgctgatgt 780  
actccacggg tctgtgcagc tattacaatt cagccctgac gacagcagtg gttggagcca 840  
tcaagaatgt atccgttgcc tacattggga tattaatcgg tggagactac attttctctt 900  
tgttaaaactt tgtagggtta aatatttgca tggcaggggg cttgagatat tcctttttta 960  
cactgagcag ccagttaaaa cctaaacctg tgggtgaaga aaacatctgt ttggatttga 1020  
agagctaaag agtctgcagc aggattggag actgacttgt gactgcgggc tgggggggca 1080  
ttcccgtagt gaatgtgaag ccagaggttt cggattcgtg acatccacc cctgggcaag 1140  
tgagagcatc tgcaaaatgc aaagagaact acctcatatg caggatgagc caatggcagt 1200  
ctcaagaaat gtactcgggc gacaccttac ctgtggaaag caaatctttt caaaataagc 1260  
cactgggact cggtaggtgg agccccagct gctcttctag ggacctatgg ggccttcgtg 1320  
gcattctctgt gctgtgtgct ggggaggagg ttgatgtaat ggtgactctt ttctgatcag 1380  
caccttggcc gtgattccca aggtcccagc caaagcaaag ggccagttgt ttcagtttaa 1440  
acagacatgt ctttagtcta ataaaattag ttaactgccg gtaaagttat ttgttagctt 1500  
tgatgaaagc tatgttggtg tctttcccta atcatcaaag taaataaaaa atcatttcta 1560  
aaaaaaaaaa aaaaaaactc tga 1583

<210> 112  
<211> 431  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 112

```
ccggcagcta gagcagctac tgactctgtt tcagccatct tcgataaagg caaaaaggta 60
agggaaggtt tccaagcttt aggaagaatt attttttttc aagacgctgt cttccgtact 120
ttcgttatta aacatacggc tcaagtgatc accggtatag acagtgacat cagacatctt 180
tcattagccc tactcaaaaa tggcggcaac gtaatatcct gggccggagt cggttgtaac 240
ccggaagtgc ctttgtaaaag gaggggtggt tagacaatcc ggaartggat ggaatgaaga 300
gatgccactt ggcggcccat ggcagctggt agtatcggcg actccgggtm aaggcccgkt 360
csagttgcat taccatgggg cagcaccngg ttttaggggc agggacantt ttgtgtttca 420
anttgtgct g 431
```

<210> 113

<211> 2842

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2656)

<223> n equals a,t,g, or c

<400> 113

```
ggtggactcg gaggccgga gcgtcgtcgg caagcggccg cctttccacg gtactccgag 60
cactatgtcg tccccggcgt cgaccccgag ccgcccgggc agccggcgtg gaagggccac 120
ccccgcccag acgcctcgga gtgaggatgc caggatcatc cctctcaga gacgtagagg 180
cgaggattcc acctccacgg gggagttgca gccgatgcca acctcgctg gagtggacct 240
gcagagccct gctgcgcagr rcgtgctgtt ttccagccct ccccaaatgc attcttcagc 300
tatccctctt gactttgatg ttagttcacc actgacatac ggcactccca gctctcgggt 360
agaggggaacc ccaagaagtg gtgttagggg cacacctgtg agacagaggc ctgacctggg 420
ctctgcacag aagggcctgc aagtggatct gcagtctgac ggggcagcag cagaagatat 480
agtggcaagt gagcagtcct taggccaaaa acttgatgatc tggggaacag atgtaaatgt 540
ggcagcatgc aaagaaaact ttcagagatt tcttcagcgt tttattgacc ctctggctaa 600
agaagaagaa aatgttgga tagatattac tgaacctcta tacatgcaac gacttgggga 660
gattaatgtt attggtgagc catTTTTTaaa tgtgaactgt gaacacatca aatcatttga 720
caaaaatttg tacagacaac tcattcttta cccacaggaa gttattccaa cttttgacat 780
ggctgtcaat gaaatcttct ttgaccgtta ccctgactca atcttagaac atcagattca 840
agtaagacca ttcaacgcat tgaagactaa gaatatgaga aacctgaatc cagaagacat 900
tgaccagctc atcaccatca gcggcatggt gatcaggaca tcccagctga tccccgagat 960
```

```

gcaggaggcc ttcttccagt gccaaagtgtg tgcccacacg acccggttgg agatggaccg 1020
cgccgcgcat gcagagccca gtgtgtgctg gcgctgccac accaccaca gcatggcact 1080
catccacaac cgctccctct tctctgacaa gcagatgac aagcttcagg agtctccgga 1140
agacatgcct gcagggcaga caccacacac agttatcctg ttgtctcaca atgatctcgt 1200
tgacaaggct cagcctgggg acagagtga ttttacaggc atctatcgag ctgtgcctat 1260
tcgagtcaat ccaagagtga gtaatgtgaa gtctgtctac aaaaccaca ttgatgtcat 1320
tcattatcgg aaaacggatg caaaacgtct gcatggcctt gatgaagaag cagaacagaa 1380
acttttttca gagaaacgtg tggaaattgt taaggaaact tccaggaaac cagacattta 1440
tgagaggctt gcttcagcct tggctccaag ctttatgaa catgaagata taaagaaggg 1500
aattttgctt cagctctttg gcgggacaag gaaggatttt agtcacactg gaaggggcaa 1560
atctcggtgt gagatcaaca tcttgctgtg tggcgacctt ggtaccagca agtcccagct 1620
gctgcagtac gtgtacaacc tcgtccccag gggccagtac acgtctggga agggctccag 1680
tgaggttggc ctactgcgt acgtaatgaa agaccctgag acaaggcagc tggctcctga 1740
gacaggtgct cttgtcctga gtgacaacgg catctgctgt atcgatgagt tcgacaagat 1800
gaatgaaagt acaagatcgg tattgcatga agtcattgaa cagcagactc tgtccattgc 1860
aaaggctggg atcatctgtc agctcaatgc gcgcacctct gtccctggcag cagcaaattc 1920
cattgagtct cagtggaaac ctaaaaaaac aaccattgaa aacatccagc tgcctcatac 1980
tttattatca aggtttgatt tgatcttctt catgctggac cctcaggacg argcctatgn 2040
acaggcgtct ggctcaccac ctggctgcac tgtactacca gagcgaggag caggcagagg 2100
aggagctcct ggacatggcg gtgctaaagg actacattgc ctacgcgcac agcaccatca 2160
tgccgcggct aagtgaggaa gccagccagg ctctcatcga ggcttatgta gacatgagga 2220
agattggcag tagccgggga atgggtttctg cataccctcg acagctagag tcattaatcc 2280
gcttagcaga agccatgct aaagtaagat tgtctaaca agttgaagcc attgatgtgg 2340
aagaggccaa acgcctccat cgggaagctc tgaagcagtc tgcaactgat ccccgactg 2400
gcatcgtgga catatctatt ctactacgg ggatgagtg cacctctctg aaacggaaag 2460
aagaattagc tgaagcattg aaaaagctta ttttatctaa gggcaaaaca ccagctctaa 2520
aataccagca actttttgaa gatattcggg gacaatctga catagcaatt actaaagata 2580
tgtttgaaaga agcactgcgt ccnctggcag wtgatgattt cctgacagtg actgggaaga 2640
ccstgcgctt gctctngaag cctgttgagc aaggaaggct ccctgcatgt cctgcttgct 2700
gcacgccaca tgggtgtggg ctgcatctca gttggcgcgc atcagtgtaa atagagctta 2760
aagtcatggt ttggctgcat aaaaattttc taacttgggt tcaatatttg tagtgaagta 2820
tctgttttca tttttttcac gt 2842

```

&lt;210&gt; 114

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

```

attttgctgc tgggtgggtg ggctacagca ggcctctgga gccacaccag ggcacgggag 60
tgggtgcagg gaccgtcacc gcgccttcac acgcaccata gtgccgggt aattactctg 120
cttttatgag ccaaggtgtt cccgaaagtg garccagcgc cagcgtctc yaaggtctcc 180
atcccagcc ttctccctg cggtgcccaa aagccttgcg cgcattttgc atttgggaaa 240
aaaagtcctg aatgcgaacg tcacccca 268

```

&lt;210&gt; 115

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
<222> (673)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (794)  
<223> n equals a,t,g, or c

<400> 115  
gcgtcggggc ttcggaggcg tgcgggcttc ggaggcgtgc gggcttcgga ggcgwgcggg 60  
cttcggaggc gtgcgggctt cgggtgccat ggggactcct cccggcctgc agaccgactg 120  
cgaggcgctg ctcagccgct tccaggagac ggacagtgtg cgcttcgagg acttcacgga 180  
gctctggaga aacatgaagt tcgggactat cttctgtggc agaattgagaa atttagaaaa 240  
gaacatgttt acaaaagaag ctttagcttt ggcttggcga tattttttac ctccatacac 300  
cttcagatc agagttggtg ctttgtatct gctatatgga ttatataata cccaactgtg 360  
tcaacaaaaa caaaagatca gagggtccct gaaggattgg gatgaagttt taaaatttca 420  
gcaagattta gtaaatgcac agcattttga tgcagcttat attttttagga agctacgact 480  
agacagagca ttctacttta cagcaatgcc caaattgctg tcatatagga tgaagaaaaa 540  
aattcaccga gctgaagtta cagaagaatt taaggaccca agtgatcgtg tgatgaaact 600  
tatcacttct gatgkattar aggaaatgct gaatggtcat gatcattatc agaacatgaa 660  
catgtaattc agntgataaa gtccaagcca gataaggcct taacttgata aaggatgatt 720  
tttttgacaa tattaagaac atagttttgg agcatcagca gtggcccaaa gaccgaagaa 780  
tccatcctta aggncaaaac 800

<210> 116  
<211> 646  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (556)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (592)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (615)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (645)  
<223> n equals a,t,g, or c

<400> 116

```

aacaaaggca ttgccatcta caagaaggat ttcttcctgg tgcagaagct ggtgagctgg 60
gctctgtttc agggccaaatg agggccagga gctgcctgtg tgactttggg gctccctctg 120
ccagtgacca atccctctta aaaagcagtc aggtcaatgc tactgagtag cctcagagag 180
aatttcctaa acaatacaag aaagagaaag ataggtctct tttccctttt ggttctaagc 240
atcctttcct cacttcaggg taggggtggc aaagctctggg gtctcaatcc agaaggaggc 300
ctaagtgggc atcagactta aaataggcag gaggaagatg cggaggaggg tggcaaktag 360
aggtgagcca ttcccagag gaagatgcag ggggagggca ccctgggggtg aaggccactg 420
agagccagca agtgcctgcg gactgacctg ggggcctctg cccacttctt ttgaccaga 480
gttgcccttc agtaactcag ctgttcaagc ccacattccc taagatttat cttgtcctct 540
ctcccatatt cttctngaa aagcagatgc tttgctaata ccaaggaatt gnattttttc 600
cagccctgtt ttcanaaaat ctggggcctt ggggaaaaaa aattnt 646

```

<210> 117

<211> 1534

<212> DNA

<213> Homo sapiens

<400> 117

```

gcgacctgg ccataagcgc ctgcgcagtc ggggggcgc cgcccgctgt gttcccgcca 60
attcctgtgg taatccttac cgtggcgagt tccgcgctca atggagacgt ttgacccac 120
cgagctgccc gagctgctta aactttatta ccggaggctc tttccctact ctcagtacta 180
tcgtgtgctc aactacggtg gagtgataaa gaattacttt caacaccgtg aattttcatt 240
cacattgaaa gatgatattt acattcgcta ccaatccttc aacaaccaga gtgatctgga 300
aaaggagatg cagaaaatga atccatacaa gattgatata ggcgcagtat attctcacag 360
acccaatcaa cacaatacag tgaagctggg agctttccag gctcaggaaa aagaactggt 420
atgtgacatt gacatgacag actatgacga tgtgaggaga tgtttagatt ctgcagacat 480
atgtcctaag tgctggaccc tcatgacaat ggccatacgc atcattgaca gagcattgaa 540
ggaggacttt ggatttaagc atcgtctctg ggtatattct ggaaggagag gtgttcattg 600
ttgggtctgt gatgaatcag ttagaaactg tcttctgcar tacgttcygg gatagttgag 660
tatttgagcc ttgtaaaggg tggtaagac gttaaaaaga aagttcacct aagtgaaaaa 720
attcaccctt ttatcagaaa atctataaac ataataaaaa aatactttga agaatatgcy 780
ttggttaatc aagatattct cgaaaataaa gaaagctggg ataagatttt agcccttgct 840
ctgaaacaat tcatgatgaa cttcaacaaa gcttccaaaa gtctcacaat tcacttcagc 900
gttgggagca cttgaagaaa gtagccagca gatatcagaa taacatcaaa aatgacaaat 960
atggaccctg gctggagtgg gagattatgc tccagtactg ttttccacgg ctggatatca 1020
atgtcagcaa aggaatcaat catctactga agagcccttt tagtgttcat cctaaaacag 1080
gtcgcattmc tgtgcctatt gatttgaga aagtggacca gtttgatcca tttactgttc 1140
cgaccataag cttcatctgc cgtgaattgg atgccatttc cactaatgaa gagggaaaaa 1200
aggagaatga agctgaatct gatgtcaaac atagaaccag agattataag aagaccagtc 1260
tagcacctta tgtgaaagtt tttgaacatt ttcttgaaaa tctggataaa tcccgaagaa 1320
gagaacttct taagaagagt gatttacaaa aagatttctg aagacagagc tcctcaaacc 1380
attgtggata tcttctgcct tcaaccacag atcaaatact tcaagagcca tttataaat 1440
atggcagaac tatatatgtg tcttaaacct caaagtaaat tttccttgag aaataaaaaa 1500
aaaaaaaaa aaaaaagtcg agactagttc tctc 1534

```

<210> 118

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (155)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<400> 118  
tagatgaaga taatgaaaaa gaaaaaaggg actcttttagg caatgaagaa tctgttgata 60  
aaacagcatg tgaatgtgta aggagtccaa gggagtcttt ggatgacctg tttcaaatat 120  
gttctccatg cgccattgca agtgggtcttc ggaanacctg gctgaattga caacattatg 180  
tttggagttg aatgtattga attctaagat caaaagcacc agtggracat gtgggaccac 240  
actttgccaa cagtaactct cctgaaattc tgggcttgcc atttccctga aagaagtact 300  
tttttcntcc ggaacttgga aaagagcgaa ggnagagta 339

<210> 119  
<211> 665  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (616)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (656)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (665)  
<223> n equals a,t,g, or c

<400> 119  
aaagagtgtc cctagtgtgta acagaaactg tcgatgcagg tttattttgga gaaggaattg 60  
tggagagttt gattcatgca tgggagcatt tactttttaca gccaaagacc aaagggtgaaa 120  
gtgctaattg tgaaaagtat gggaaagtta taccagcaag tgctgttata tttgggatgg 180  
cagtagaatg tgacagagata agaagacatc atagagtggg tattaaggac attgctggta 240  
tccatttgcc aacaaatgtg aaatttcaga gtccggctta ttcttctgta gatactgaag 300  
aaacaattga acctatata actgaaaaga tgagtcgagt tcctggmggr tatttggctt 360  
tgacagagtg ctttgaaatt atgasagtag atttcaacaa ycttcaggaa ttaaaaagtc 420  
ttgcaactaa raarcctggg aaaattggta ttctgtttat taaagaaggc atattagatg 480

```

ctgttggtgt ttggtttgta ctccagcttg atgatgaaca tagtttatcc acaagtccta 540
atgaggaaac atgttgaggaa caagctgtct accctgtaca tgaccttgca gactaccgga 600
taaaacgtgg ggaccngtga tgatggaatg tcttgtccaa gattgttact taagantcca 660
gaatn 665

```

<210> 120

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<400> 120

```

gagggctgcg ggaggcggga ggaaaaagtg gggccggggc tgagttgggc tgacctgtga 60
aagtctggga aggtctgcga gagaagcgga gtgttttcag ctccggaagt ggcagttgta 120
aacttcacct cccggggggt cttccccttc tgtaccctt tgctgtttgt cccctcctc 180
ccgggtcctg gagtccgtcg tgttccaaca gtttttgctc ttattcccgt gggctgctgg 240
gcctcctttc acccgtgaga cttggarcgg ccttgggggc ttgggtgtca agcacggatc 300
acgcgagacc cctgagacct caaatcatct aacgtgaagc cacagacatc ttggcaattt 360
taatcatcaa gaaagaaata tgatcatcag aaatagcagg gtattttgaa agaagttgga 420
aaacatcatg aatttgaata ctttaagtaa tactgggtgat acccaaaggt tgaagattgc 480
ctcattggat gtaaaacaaa tacttaaaaa tgaaacagag ttggatatta ctggataatc 540
tcangaagaa actccattgg gctaaaaaag aaaagtntga aataccacca accccatgga 600
aancttgcaa gctntgaagn ca 622

```

<210> 121

<211> 889

<212> DNA



<213> Homo sapiens

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (830)

<223> n equals a,t,g, or c

<400> 121

```
ggctgaagcc atccccttgg ctgatcagcc acatctgttg cagccaaatg ctagaaagga 60
ggatcttttt ggccgtccaa gtcaggggtct ttattcttca tctgccagta gtgggaaatg 120
tttaatggag gttacagtgg atagaaactg cctagagggtt cttccaacaa aaatgtctta 180
tgctgccaat ctgaaaaaatg taatgaacat gcaaaaccgg caaaaaaaag aaggggaaga 240
acagcccgtg ctgccagaag aaactgagag ttcaaaacca gggccatctg ctcatgatct 300
tgctgcacaa ttaaaaagta gcttactagc agaaatagga cttactgaaa gtgaagggcc 360
acctctcaca tctttcaggc cacagtgtag ctttatggga atggttattt cccatgatat 420
gctgctagga cgttggcgcc tttctttaga actgttcggc aggttattca tggaagatgt 480
tgagcagaaa cctggatcaa tctaactga attgggtggt ttgaggtaa aagaatcaaa 540
attccgcaga gaaatggaaa aactgagaaa ccagcagtca agagatttgt cactagaggt 600
tgatcgggat cgagatcttc tcattcagca gactatgagg cagcttaaca atcacttttg 660
tcgaagatgt gctactacac caatggctgt acacagagta aaagtcacat ttaaggatga 720
gccaggarar ggcagtgggtg tagcacgaag tttttataca gccattgcmc aagcattttt 780
atcaaatgaa aaattgccma atctagagtg tatccnanaa aaaaaatttn ggccccccca 840
aaaaccctaaa aaaaaggggc caaccctcaa ccaccaaagg gtttttttaa 889
```

<210> 122

<211> 132

<212> DNA

<213> Homo sapiens

<400> 122

```
cttgagcccc tgagttgtgg gggtaggggtg aagagcatat cccacaagag gccccacagg 60
gagcagagac tgctttaatc cctgctgaca tcacggaaaa gcaacagagc cttttcaact 120
ttgtcactat gt 132
```

<210> 123

<211> 1900

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1879)

<223> n equals a,t,g, or c

<400> 123

```
gcggacgcnt gggaaacagc cgattggaga cgggagccaa ccagggctgc attggaggtt 60
gaaatcacaa agattagaca cctttttaga taggtgttct tcagcaccac tgacaacacg 120
gttctgacag tatttcatga caatggatgg tgacagttct acaacagatg cttctcaact 180
aggaatctct gcagactata ttggaggaag tcattatgtt atacagcctc atgatgatac 240
tgaggacagc atgaatgac atgaagacac aaatggttca aaagaaagt tccagagaaca 300
agatatatat ctccaatag caaacgtggc taggataatg aaaaatgcc tacctcaaac 360
gggaaagatt gcaaaagatg ccaaagaatg tgttcaagaa tgtgtaagt agttcatcag 420
ttttataaca tctgaagcaa gtgaaaggtg ccatcaagag aaacggaaaa caatcaatgg 480
agaagatatt ctctttgcta tgtctacttt aggccttgac agttatgtgg aacctctgaa 540
attatacctt cagaaaattca gagaggctat gaaaggagaa aagggaattg gtggagcagt 600
cacagctaca gatggactaa gtgaagagct tacagaggag gcatttacta accagttacc 660
agctggctta ataaccacag acgggtcaaca acaaaatgtt atgggtttaca caacatcata 720
tcaacagatt tctggtgttc agcaaattca gttttcatga tctgaagaaa tgatggaatg 780
gggagtgtag agaaatgaga gtctgtatga ttctggaaca gagacatcag aaggaaagac 840
tggtgaaaag atgtatcttt gtatattaat agctgtaatg tagcttcctg atgcttgact 900
aattgaggtg ttaattctga cttgagaatc tttttcatga atgattttta agaaaaattt 960
ggatttttaa ggtattaaaa tatttttgtt ttgtacgaga gtttgttgct ctgtatgact 1020
cctgtatgca ttgtatatgt caatttatta ctgtcagaga tttgtagaca gtttcttatt 1080
ttcatattga atcatgttac ttttgtaatt caagtaagcg gctgggttaa ttcattgatgt 1140
ttgccctttt aataaaatat aagggtagag ttcattttga atgcaagttg cctttattat 1200
aaatttgagt ttgtcttggt tataccttgc atgataacct agctagattt ctagcatttg 1260
ctgtatttat taaaattatt attttttttg taaaacatta atagtttaag cagcatcatt 1320
tttttaaaaa atgtaattga ataagtgtga atgcagaagc aaatattgtc tgccctgtta 1380
aacttggtgc ccattaacag tgtttacact gttcatcgtg cctgttaatg tagttttagt 1440
taytgagct tttttaagac tagatttggt tttgagttac atttttaaga atgtgggaat 1500
atatttaagt ttaatgtagt cctagtgtct ttgaaatggt gcccttttca tttggtacat 1560
gatttttttt caaatcatat cttcaagtac tatagtattc tcttacagaa gaggagtttt 1620
atagtctgat ggtaaagtgc ttcattttac ctttttaatt gaaatgtcaa gtttcctgtt 1680
acactatgga aaccaagaaa catcagacat cattgcgtgt acagaccttt tgcattgggtg 1740
agtgagtgaa atggagaaca gagtgagtgc tgtgaacggt gtgaaataga agccaacttc 1800
tagtatgctg tcttcatctc tgcaataaac taaacgtaaa taawrwaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1900
```

<210> 124

<211> 1250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

&lt;400&gt; 124

```
ggcacgagga ggaaactaac gattccctgc ccacccccac acccagcacc accaacaggt 60
gggcaagctt gccgagaaaa cgcagagggc atcctgtgag cagcaaacac atctgagcct 120
ggaaaagacg cagagaagta aaagatcaaa gtctgattgg caccggctcc cattccggct 180
ccagcctcca atccgacccc catttcggct gcagcctcgg acctagctcc ggccctcgg 240
ctatccggtt gcatcctccc tccctgttcc ggatcttata ttgcgccagc gcctactcca 300
ggatcccgtat gccagacctc aagccatggc tggccccctc tcccgtctgc tgtccgccc 360
cccgggactc aggtcctctg ctttggccgg agcgggggtc ctaccgctg ggtttctgct 420
ccgacgggaa cctgtacgag ctgccagtga acgacggagg ctgtatcccc cgagcgtga 480
gtaccagac ctccgaaagc acaacaactg catggccagt cacctgacct cagcagtcta 540
tgcacggctc tgcgacaaga ccacacccac tggttggacg ctatgcagt gtatccagac 600
tggcgtggac aaccctggc accccttcat caagactgtg ggcatggagg ctggagatga 660
ggagacgtat gaggtatttg ctgacctgtt tgaccctgtg atccaagagc gacacaatgg 720
atatgacccc cggacaatga agcacaccac ggatctagat gccagtaaaa tccgttctgg 780
ctactttgat gagaggtatg tattgtcctc tagagtcaga actggccgaa gcatccgagg 840
actcagtctg cctccagctt gcaactcagc agancgacga gaggtggaac gtgttgagg 900
ggatgcactg agtggcctga aggggtgacct ggctggacgt tactatagga tcagtggat 960
gacagaggct gaacagcagc agcttattga tgaccacttt ctgtttgata agcctgtgtc 1020
cccgttctg actgcagcag gaatggctcg agactggcca gatgctcgtg gaatttggca 1080
caacaatgag aagagcttcc tgatctgggt gaatgaggag gatcatacac gggatgatctc 1140
catggagaag ggtggttaaca tgaagagant gtttgaaaga tctgccgagg cctcaaagag 1200
gtrgagagac tatgtagggg actaggtggg aggacataag gaaaacccaa 1250
```

&lt;210&gt; 125

&lt;211&gt; 1189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1041)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1136)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1144)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 125

```
cttttttttaa cccttttaggt atctgatcgc tttgccaaatt ttgcgttact gggcaggcta 60
agagatcttc ttttaattca gcctgcttaa gacgggaact gataactgta gtgtatcctc 120
tgccctttttt cttatctatt ggaggaagct cagatgggtg cacaagaagg atctgaagtg 180
gagcttctag tatccccagg agcgcgaagt gaacacggaa ggtacctgca ggatccaatt 240
gtgtccattg atctctcaga gtggctgagg ataataagat ttcttcttca aggtctcaag 300
gtctgaagca tcccacagaa tgatcctact gaataactcc cataagctgc tggccctata 360
```

```
caaatccttg gccaggagca tccctgagtc cctgaagggtg tatggctctg tgtatcacat 420
caatcacggg aaccccttca acatggaggt gctgggtgat tcctggcctg aatatcagat 480
ggttattatc cggcctcaaa agcaggagat gactgatgac atggattcat acacaaacgt 540
atatcgtatg ttctccaaa agcctcaaaa atcagaagaa gttttgaaaa attgtgagat 600
cgtaaactgg aaacagagac tccaaatcca aggtcttcaa gaaagttag gtgaggggat 660
aagagtggct acattttcaa agtcagtga agtagagcat tcgagagcac tcctcttggg 720
tacggaagat attctgaagc tcaatgcctc cagtaaaagc aagcttgga gctgggctga 780
gacaggccac ccagatgatg aatttgaaag tgaaaactcc aactttaagt atgccagct 840
ggatgtctct tattctgggc tggtaaata caactggaag cgagggaaga atgagaggag 900
cctgcattac atcaagcgt gcataaga cctgccagca gcctgtatgc tcggcccaga 960
ggagatccc gtctcatggg taaccatggg accctcttg tgaagtagga atggcctaca 1020
gcatggaaaa ataccgaaga ncaggcaaca tgggcacgag tgatggtgcg atacatggaa 1080
atatctgcgt cagaaggaat atttccattt ttacatctct gtgttgggaa ggaaantgaa 1140
ggantccccg cagatttgtg gggggcagtt ttggtttctt ttgaggcct 1189
```

<210> 126

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 126

```
gaggtcctga gagactgtra gagccccaac tccattagta ttatgggcct caatacttcc 60
cgggttgcaa ttaccctgaa gcccgaagac cctatggaac agaacgtagc tgagctgttg 120
cagttcctgc tgggtgaagga tcagagcaag taccctatcc gggagtctga aatgcgggaa 180
tatattgtta aagaatatcg caaccagttt cctgagatac tcaggcgagc agcagccac 240
ctggagtgca tttttaggtt tgaattgaga gaacttgacc ctgaggcaca cacctacatt 300
ctgttaaaaa aactgggacc tgtgcccttt gaagggttag aagagagccc aaatgggcca 360
aagatgggccc tcctgatgat gattctangc caaatattcc tgaatggcaa ccaagccaag 420
gaggctga 428
```

<210> 127

<211> 645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 127

```
acgcggtcgg ccgggagccg gggaggagcg tggacgccgg cctggcaggt acccccgcga 60
gaacgtggga gccgtgtat ttcagctgca tttattactg atctcgggct gcaccagggc 120
acttgtagga ccgcaactaaa aacagcggaa agtgaggagc caagcctggg tccggggcgg 180
cccgccttac agctggcctc acggattcca ctgcctgcgc ctgcagatga cttgttctgg 240
agagtagaga atgtncctgg atttaaagta caatccggtt tcctttccat tcattatagt 300
```

```

tgccctacact caacaaacaa aagttgggaa agataaaggg attattctag cgcgtcacat 360
tgacaaacac cgacgttaac acgctcagtc cagcctgact cacttgccctc aggtcagaga 420
ggtcaccact gacgacgccg ggccctcaag ccgatacctaa tccagcttgg ttctctcagc 480
ctcagccaga ccatccgttc ttgcctctgt cccaccacgt gcaggtgtaa gytccgccg 540
cacttcttgt ctgaatctgc caaggaagga aactggcatc ttccagctta aattcttttt 600
cacttgatca ggggtaggag tttaggcggg tttttttttt aagga 645

```

<210> 128

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 128

```

ctggagtctc aacgacgcgc acacgagaag taaggagcgg aaggtgggaa agggccggaa 60
aacacacgtt cctccgaaac cggtttgcaa gtcctttag agagtgatag attcgtgtgg 120
cctttcaaat gattgtgaag tggtggaat ggatccaaa taataagtga cttctctacc 180
aaagcataga agattcttca tatctccttc cagtggctca atttagattt tgggaargag 240
cagaacaagt gaaacacaga aaactgaaga gaagaaatcc tcattttgga cctatatattc 300
tccttgacta tttcttaata tccatcctac ccacgttct aatgttttaa ctttgcctctg 360
aattttataa tagtaaaggc caaagacata gaatatacat ttagtagctt tataccaaga 420
aatttgccct gaaagctgct gtscgtggag gggaaagtgt agcaaattcc tggcnatttg 480
naattttaan ttattg 496

```

<210> 129

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 129

```

ctggcggccg caggagcgcg tgcggcgtgg actttgccgg gctcgccaca cagccccaga 60
cccgtttagg accgggagac cgaacgcagc gwccagccgg ggagtttcgg cggcgttctc 120

```

cgggcaccgc gcgcggaagc cagacgcagc ggggggacac atctcgcggt ggcgttgcca 180  
gagtgaggag ttagcaggca ggacttgacg aggctctttg gtttttctag tcctcaacca 240  
ctgaagaaga agcttgatgc ttggctgtca gaagacatga attacgcacg gttcatcacg 300  
gcagcgagcg cancagaaac ccttctccca tccggaccat gactgacata ttgagcagag 360  
gaccaaatac gatgatctcc ttggctggtg gcttaccaaa tccaaacatg tttcctttta 420  
agac 424

<210> 130

<211> 1709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1028)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<400> 130

tggaccgcag ctctctggaa gacacaaccc ccgccaggga cgagaagaag gtggggggcca 60  
aggctgcccc gcaggacagc sacagtsatg gggaggccct gggcggaas ccgatgggtg 120  
carggttcca ggacgatgtg gacctogaag accagccacg tgggagtccc ccgctgcctg 180  
caggccccgt cccagtcaa gacatcactc tttcgagtga ggaggaagca gaagtggcag 240  
ctcccacaaa aggccctgcc ccagctcccc agcagtgtc agagccagag accaagtggg 300  
cctccatacc agcttcgaag ccacggaggg ggacagctcc cacgaggacc gcagcacccc 360  
cctggccagg cgggtgtctc gttegcacag gtccggagaa gcgcagcagc accaggcccc 420  
ctgctgagat ggagccgggg aagggtgagc aggcctctc gtcggagagt gaccccgagg 480  
gacccattgc tgcacaaatg ctgtccttcg tcatggatga ccccgacttt gagagcgagg 540  
gatcagacac acagcgcagg gcggatgact ttcccggtcg agatgacccc tccgatgtga 600  
ctgacgagga tgaggggccct gccgagccgc ccccaacccc caagctccct ctccccgcct 660  
tcagactgaa gaatgactcg gacctcttcg ggctggggct ggaggaggcc ggacccaagg 720  
agagcagtga ggaaggtaa gaggggcaaaa cccctctaa ggagaagaag aagaagaaga 780  
aaaaaggcaa agaggaagaa gaaaaagctg ccaagaagaa gagcaaacac aagaagagca 840  
aggacaagga ggagggcaag gaggagcggc gacggcgga ncagcgcccc ccgcgcagca 900  
gggagaggac ggctgccgat gagctggagg ctttcttggg gggcggggcc cggcgggccg 960  
ccaccctggg ggtggcgact acgaggagct ctaggccggc gtgggcagtg gccgccctgg 1020  
ggcggggngc gtgcctgtca ctgcctgggg aggcatttgc ntctgtacca tcgcctttgc 1080

```
cgctgccccg tggctgccgt gtgcgcttct gagctggaag aggccgggca ttggtgggtcc 1140
ccaggctggg ccctgcaggt gctgggcntt cagccyagtg tgagcctgct ctgcaagaag 1200
ggagggggaca gctggcttca gccaggctcg gtggacaccc tggccctctc ggggcagagc 1260
cgccagtggt tctcagggat gtgactgagg cccaggaggg acctgtgagg gtctgtttac 1320
agaggctggg cagggggccgc ttggctgtgg ggtgtgcgct gcccgggcac ctgcttgccc 1380
tccgcgctca tctggggccg cagcatgcct atggttccgc ttccggccgg gagccctgaa 1440
cacgggtgtg cagactcacc cttaaagggcg gccaggccc cacgctagaa ggctggcgag 1500
accgaagcag catgtgaggc ctctcctggg agtggggggt gtgtttccca cagtggcctc 1560
agctgcgccc ccgctcaggt gagcccgaa gacaggagcc ggaggcactc ctcccaaaca 1620
ctccactcag accataaagc actcctgttt cactctgaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaagggcg ccgctcgcga tctagaacc 1709
```

<210> 131

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 131

```
ctcgcctcgga ttggttcagt gcactctaga aacactgctg tgggtggagaa actggacccc 60
aggtctggag cgaattccag cctgcagggc tgataagcga ggcattagt agattgagag 120
agactttacc ccgcctgggt ggttgaggag cgcgcagtag agcagcagca caggcgcggg 180
```

```

tcccgggagc cccgctctgc tcgcgcgcgag atgtggaatc tccttcacga aaccgactcg 240
gctgtggcca ccgcgcgcgc cccgcgcctg ctgtgcgcctg gggcgctggt gctggcgggg 300
ggcttctttc tcctcggtt cctcttcggg tggtttataa aatcctcaa tgaagctact 360
aacattactc caaagcataa tatgaaagca tttttggatg aattgaaagc tgagaacatc 420
aagaagttct tatataatct tacacagata ccacatttag caggaacaga acaaaacttt 480
cagcttgcaa agcaaattca atcccagtg aaagaatttg gcctggattc tgttgagcta 540
gcacattatg atgtcctggt gtcttaccga aataagactc atcccaacta catctcaata 600
attaatgaag atggaaatga gattttcaac acatcattat ttgaaccacc tyctycagga 660
tatgaaaatg gttcggatat tgnaccacct ttcagtgtct tctctcctca aggaatgcca 720
ganggcgatc tagtgtatgn taactagcac gaactgaaga cttctttaa ttggracggg 780
acatgaaaat canttgctct ggggaaaatt gtnattgcca agatatggga aagttttcaa 840
naggaaataa ggggttaaaaa tgccca 866

```

<210> 132

<211> 1593

<212> DNA

<213> Homo sapiens

<400> 132

```

gttgtagtga gctgagatca tgccactgca ctccaacctg ggtgacagag cgagactcca 60
tctcaaaaat aaataaataa ataaataaat aaaaccttaa tttgatgggt gttttatgtc 120
tgccatttcc atttagattc aaagaatcct aagaataatg gtggagcaaa gcttattttt 180
ctgttttttg aatcttgtaa ggcattggtgc caaacccaat gaaatggtgc caaaaagtcc 240
tgcagctgga actagagcta gagtctaagg gttctgatcc ttagctccaa ggcttctca 300
taaactcctt gacactttca cctccaaca cagtcagtoa gtctctgttt ttctggttgg 360
gtttctatat aaaactttcc attttgagta atgatcttcc cctcttgcc tttcttctac 420
atattccaat aaagaccttt tttgtcttca actcctgtca cttggattcc aggacttctt 480
ccatccctca tgtttgttcc ttactttgcc agcctcgcc atttctgtat cccctgccc 540
gggkttgctg ccttttatgc tcctamctca ccaggtaaaa ggaacatgaa gatggctata 600
tgccgctgca gctggttcgc tamgagagt tagagctgac acagcaactg ctgcggcaac 660
cacaagaggg atcggtgctg gaacgtcgtc gaacgagagc agcctgcarg gsattattct 720
agaaacagtg ccaggggagc caggacgtaa ggaagaggaa gaggagggca agggtagcga 780
agggacagcc ctctcagcct ctcaggacaa cccagttct gtcatccacg tggatgaatc 840
gaccaatgcc caaggccagc aararattgt ytactatgtg ctgtctgaag cccaggggag 900
ccttccccca gccctgagc cacttcagg gggcatcatg gaaaagcttc aaggaatagc 960
tgaggagcca gagatccaga tggtttgaag gccgcagagc cagaccattt cttccccagg 1020
tcctgaagtt tgagccaggc aagtggcagt gcccttagtg ggcagccgtt gccaatggat 1080
gccttttagga gtggtgccga gagcagtgtg gtccactctg gcctgggttt gcatcattct 1140
gcagactcta aagacttccc tttcttgcca gactacattt tgtggggagc ctgaggactc 1200
tggattcttt gaggggatcc tggatgtgtg tgttcttgtt aaagaggctg ttatcaggct 1260
taacyataac cctcaagatc tgcttgacag tgattaaatc cttagctcac atccattccc 1320
atctttcggg ctctttaggc ccaaggatgg catgtgactg gtccctgcaa gggtcctttc 1380
tttgtcacca gccaaagcat tgataaccaa gttagccatt tcctcttaag gtttctctca 1440
caaccccaag gactttcatg attatcctca gggacaggat tggaggcatt gagcgtgttt 1500
attaacaaat tgtttttggt aataaaataa atgcttgga aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaactcg tag 1593

```

<210> 133

<211> 408

<212> DNA

<213> Homo sapiens



<220>  
<221> misc feature  
<222> (381)  
<223> n equals a,t,g, or c

<400> 133  
tccttctgac gtcaatgtga tggcgggaatc gctgaaggat atggaagcag atgcgcagaa 60  
actgtaccag ttaatctggc gtcagttcgt tgcctgccag atgaccccag cgaaatatga 120  
ctccacgacg ctgaccgttg gtscggggcga tttccgcctg aaagcacgcg gtcgtatttt 180  
gcgttttgay ggctggacaa aagtgatgcc tgcgttgctg aaaggcgatg aagatcgcat 240  
cttaccagca gttataaaag gcgatgctct gacgctcgtt gaacttacac cagcccagca 300  
ctttaccaag ccgccagccc gtttcagtga agcatcgctg gttaaagagc tggaaaaacg 360  
cggtatcggt cgtccgtcta nctatgcgtc gatcatttcg accattca 408

<210> 134  
<211> 2741  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1673)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2736)  
<223> n equals a,t,g, or c

<400> 134  
cggcgtaag acttcgtagg gtttagcgaat ttgaggtttc ttggtattgc gcgtttctct 60  
tccttgctga cyctccgaat ggccatggac tcgtcgcttc agggccgcct gtttcccggt 120  
ctcgtatca agatccaacg cagtaatggt ttaattcaca gtgccaatgt aaggactgtg 180  
aacttggaga aatcctgtgt ttcagtggaa tgggcagaag gaggtgccac aaagggcaaa 240  
gagattgatt ttgatgatgt ggctgcaata aaccacagaac tcttacagct tcttccctta 300  
catccgaaga caatctgccc ttgcaggaaa atgtaacaat ccagaaacaa aaacggagat 360  
ccgtcaactc caaaattcct gctccaaaag aaagtcttcg aagccgctcc actcgcatgt 420  
ccactgtctc agagcttcgc atcacggctc aggagaatga catggagggtg gagctgcctg 480  
cagykgcaaa ctcccgaag crgttttcag ttctcttcg gaggaatca tgtcttgtga 540  
aggaagtggg aaaaatgaag gaacaagcga gaagagaaga agggccagaa ytctgaawtg 600  
agaatgaaga gagctcaggw gtatgacagt agttttccaa actgggaatt tgcccgaatg 660  
attaaagaat ttcgggctac tttggaatgt catccactta ctatgactga tcctatcgaa 720  
gagcacagaa tatgtgtctg tgtaggaaa cggccactga ataagcaaga attggccaag 780  
aaagaaattg atgtgatttc cattcctagc aagtgtctcc tcttggtaca tgaacccaag 840  
ttgaaagtgg acttaacaaa gtatctggag aaccaagcat tctgctttga ctttgcat 900  
gatgaaacag cttcgaatga agttgtctac aggttcacag caaggccact ggtacagaca 960  
atctttgaag gtggaaaagc aacttgtttt gcatatggcc agacaggaag tggcaagaca 1020  
catactatgg gcggagacct ctctgggaaa gcccagaatg catccaaagg gatctatgcc 1080  
atggcctycc gggacgtctt cctcctgaag aatcaaccct gctaccggaa gttgggcctg 1140  
gaagtctatg tgacattctt cgagatctac aatgggaagc tgtttgacct gctcaacaag 1200

```
aaggccaagc tgcgcgtgct ggaggacggc aagcaacagg tgcaagtggg ggggctgcag 1260
gagcatcttg ttaactctgc tgatgatgtc atcaagatgm tcgacatggg cagcgctctc 1320
agaacctctg ggcagacatt tgccaaactcc aattcctccc gctcccacgc gtgcttccaa 1380
attattcttc gagctaaagg gagaatgcat ggcaagttct ctttggtaga tctggcaggg 1440
aatgagcgag gcgcrkacac ttccagtgtc gaccggcaga cccgcagtgga gggcgagaa 1500
atcaacaaga gtctcttagc cctgaaggag tgcatcaggg ccctgggaca gaacaaggct 1560
cacacccgtg tccgtgagag caagctgaca caggtgctga gggactcctt cattggggag 1620
aactctagga cttgcatgat tgccacgata tcaccaggca taagctcctg tagnaataac 1680
tttaaacacc ctgagatatg cagacagggg caaggagctg agccccaca gtgggcccag 1740
tgagagcgag ttgattcaaa tggaacaga agagatggaa gcctgctcta acggggcgct 1800
gattccaggc aatttatcca aggaagagga ggaactgtct tcccagatgt ccagctttaa 1860
cgargccatg actcagatca gggagctgga ggagaaggct atggaagagc tcaaggagat 1920
catacagcaa ggaccagact ggcttgagct ctctgagatg accgagcagc cagactatga 1980
cctggagacc tttgtgaaca aagcgggaatc tgctctggcc cagcaagcca agcatttctc 2040
agccctgcga gatgtcatca aggccttgct cctggccatg cagctggaag agcaggctag 2100
cagacaaata agcagcaaga aacggcccca gtgacgactg caaataaaaa tctgttttgt 2160
ttgacaccca gcctcttccc tggccctccc cagagaactt tgggtacctg gtgggtctag 2220
gcagggtctg agctgggaca ggttctggta aatgccaaagt atgggggcat ctgggcccag 2280
ggcagctggg gaggggggta gagtgacatg ggacactcct tttctgttcc tcagttgtcg 2340
ccctcacgag aggaaggagc tcttagttac ccttttgtgt tgcccttctt tccatcaagg 2400
ggaatgttct cagcatagag ctttctccgc agcatcctgc ctgcgtggac tggtgctaa 2460
tgagagctc cctgggggtg tcctggctct ggggagagag acggagcctt tagtacagct 2520
atctgctggc tctaaacctt ctacgccttt gggccgagca ctgaatgtct tgtactttaa 2580
aaaaatgttt ctgagacctc tttctacttt actgtctccc tagagatcct agaggatccc 2640
tactgttttc tgttttatgt gtttatacat tgtatgtaac aataaagaga aaaaataaaa 2700
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggggncccc c 2741
```

<210> 135

<211> 686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<400> 135

```
tcttcctttt ttccgcctct cgttcgcttt tgtcttacga ggcttcgga acacggccca 60
gaattacaga gaaaacacac ctgcacgcgc actctctcgt acacgctgtg cggcttctgt 120
ttgggtggcc agttcgtccc aatttcgcac tcacaggctg cggagcagca actctcacga 180
tatttgctcg acccgagggc gtatccgctg ccgggttctg gcgcgccctt tcagttctgc 240
ttgctgtcsg caccgctgct ttaccgggaa ccgcccggcc gaacagcatg acgtccgctt 300
tgagaaacta catcaaccgt atcctcaagc tggcgccgcg ggcgtgagcc ggggtcgcgg 360
agaggccgcg gtcggggatc ggtgggaggt tgggaggcct ggcctcggcg ggatcctggg 420
ggcgggcgag gagatgaggg ccccggaacg acccagagtt cgcggcgggc gcctcagacc 480
```

ttcccgtgc tgcgggccca rgggtccttt ccattttgcc tgcaaaaccc aaataaaaaac 540  
ccagtgtgat tattccgaac tttctgtct taaaaaaaat gtacgtctt gattcttact 600  
tactatattcc ctatggcata agtggttaaag tttgtganta agatgaacag tcgtcttggc 660  
ggcgacaaca gtttgcaatc tttgta 686

<210> 136

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<400> 136

cagcttactc tcaatatatc tctcttactc tctctctctc tctctttttt ttttaatatg 60  
gtgaaattag accaggggtc agaacataga ttttagtctc ctttagttca tctactagga 120  
gactaaatta gataatctct aaactccctt ttagttctaa aattctgtaa ttaaactota 180  
gcatatcatc attttagact aaaagttttc ttctctctct tcttttttnt tttggttttt 240  
tn 242

<210> 137

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<400> 137

caggaagagc ccaactgggt atcagaataa gccacatgca ccttctgaaa ctgcccaaat 60  
ccacacctgc ataagaattt gagcccagtt cataaagcag atcatgaagc aattatcttc 120  
ctggaagggt ttttagcttg ctctccagtt gcctcagcag ctttggctct gtgccacagt 180

```

gagcccaagg ggaaggtgat ggaacagcat cacatctgca ggctcagtgt tttgtttggt 240
gagggttaagg ggaggggaatg tagacggatg aagaaatttc tccctactgc ttccattttg 300
atatttcttt aacttcacat ttcacctca ttcctagcag ttgcctagtt atagaggatt 360
tcttttawct ttttttcaga ggcatgccag gtggaagtga ggtgcttgst ggsctacaac 420
tccagtgtct gcaattccaa aatgnccctt ggatggaggg ttggtgagaa tgtcaccaca 480
gtgggaaacc agcaatcggg ggaaccattc ccttaagcaa gcctttnaaa gttnttttaa 540
tgccc                                             545

```

<210> 138

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 138

```

tcctcgggga gccagttgt gccaccatt ctctgtaagg tggccccagg gtgggcttag 60
gagcctataa tagtgccag tgccagagga ggctccctca agaaagccag agttgagatc 120
tgaggaggga gagggagtta gccagaccag ggtggagatg aggggtattct gagcagcagg 180
acctgcaggg gcacaaggca agggccgcat cctagaggag acccagtggc caggcacatc 240
atgggaactg caggctggcc ccaagcctct gccccgctcc tcccttgcat gcaggggctc 300
ctggagcctt gtgctcatcc tgggtctctg aggncccagc cctgcacaga gagcgcagac 360
gtgccttgcc ttncaacccg tccgctctgt cctctt                                             396

```

<210> 139

<211> 2771

<212> DNA

<213> Homo sapiens

<400> 139

```

cggaggtgag gtttgttacc gcgattctga gaggtgggct tttagtccct ccagacctcg 60
gcttttagtgc tgtctccgct tttctttcac cttcacagag atgtcttatg gtgaaattga 120
aggtaaattc ttgggacctg gagaagaagt aacgagttag ccacgctgta aaaaattgaa 180
gtcaaccaca gagtctgtatg tttttcacia tcatagtaat gctgattttc acagaatcca 240
agagaaaaact ggaatgatt gggtcctgt gaccatcatt gatgtcagag gacatagtta 300
tttgcaggag aacaaaatca aaactacaga tttgcataga cttttgcatg atgagatgcc 360
tggtaataga ccagatgtta ttgaatccat tgattcacag gttttacagg aagcacgtcc 420
tccattagta tccgcagacg atgagatata tagcacaagt aaagcattta taggacccat 480
ttacaaaccc cctgagaaaa agaaacgtaa tgaaggaggg aatgaggcac atgttctaaa 540
tggtataaat gacagaggag gacaaaaaga gaaacagaaa tttaactctg aaaaatcaga 600
gattgacaat gaattattcc agttttacaa agaaattgaa gagcttgaaa aggaaaaaga 660
tggttttgag aacagttgta aagaatctga accttctcag gaacaatttg ttccatttta 720
tgagggtcat aataatggtc tcttaaaacc tgatgaagaa aagaaagatc ttagtaataa 780

```

```

agctatgcc a tcacattgtg attatcagca gaacttgggg aatgagccag acaaatatcc 840
ctgtaatgga caagtaatac ctacattttg tgacacttca ttactttctt tcaggcctga 900
atggcagtc a gtatatcctt ttatagtgcc ctatggtccc cctcttccca gtttgaacta 960
tcattttaac attcagagat tcagtgggcc accaaatcca ccatcaaata ttttccaagc 1020
ccaagatgac tctcagatac aaaatggata ttatgtaaat aattgtcatg ttaactggaa 1080
ttgcatgact tttgatcaga acaatgaata tactgactgt agtgagaata ggagtagtgt 1140
tcatccctct ggaaatggct gcagtatgca agatcgatat gtgagtaatg gtttctgtga 1200
agtcagagaa agatgctgga aagatcattg tatggacaag cataatggaa cagacagggt 1260
tgtgaaccag cagtttcaag aggaaaagtt aaataaattg cagaagttac ttattctttt 1320
aagaggctct cctgggtctg ggaaaacaac attgkctcga attctgcttg gtcagaatcg 1380
tgatggcatt gtgttcagca ctgatgacta ttttcaccat caagatgggt acagggtataa 1440
tgттаатcaa cttgggtgat gccatgactg gaaccagaac agagcaaaac aagctatcga 1500
tcagggaaga tctccagtta taatagataa cactaatata caagcttggg aaatgaagcc 1560
atatgtggaa gtggccatag gaaaaggata cagagtagag ttcatgaac ctgaaacttg 1620
gtggaaattt gatcctgaag aattagaaaa gaggaataaa catgggtgtg ctcgaaagaa 1680
gattgctcag atgttggtat gttatgaata tcaaatgtcc atttctattg taatgaattc 1740
agtgaacca tcacacaaaa gcacacaaag acctcctcct ccacagggga gacagagggtg 1800
gggaggctct cttggctcac ataatcgtgt ctgtgtcaca aataatcatt aaattagcta 1860
ttttcagcta acacatttgt tgttgcaact gaaaaagagt tagtgagcct gtcttgaggt 1920
ttaagtagtt tcaaataaaa aaaggctaca gtgcctcaca aaggatgttc ccagcaagtt 1980
gtttaaatcc ccagcaagtt gttaaagtgt aaataaaaaat atatgaaatt gtattttaaa 2040
tgtttttata ttctcttggt gtaatactct tggctgttat ggaagcacct gagtaataga 2100
gtgggtgggt ggagctagga tgtttttcta caatogaatt ttaaactaat ttatctattt 2160
tatagacact attgaacagt tttttaatag ttcataatcta aatctaactt ttcataaaac 2220
tttacgggtt tctcttcaat accttaataa tgcaagaaat actgacttgg tatagggtac 2280
cttagttttc tctattcatt agacaggtaa aatttatatt cagctgattg atctgtgtga 2340
caaaattatt tcttagctat aatcagcaca tcacttagtt caaacaaaat tccccagcaa 2400
atgttagata gtaggtatat cagtcacctg gggagttttc ttcataatat gcatattcat 2460
cttgtaatgc atacatagtt atcatcctcc ttctcaacc atctccctaa ccccatatgc 2520
ttgccagttc ttgaagggat aaagtgatts taataatggt ttacttctct ctgttcaatt 2580
taatgtgata taattctagt ataaaaatat tttggacagt tgcttaacat ggtcataaga 2640
ggatttgtac tatagaatat cttctagtac taatttttct gtagagcaaa ttatatttct 2700
ctcactggat agttttttaga tgtgtttctt catataaaat taaaaactga gatggaattc 2760
aaaaaaaaa a 2771

```

<210> 140

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 140

```
actaagggat actgctcaaa gttaagatga caattatcag tgatgtataa taagagatgc 60
tgaaataagg gtgataataa aggtcccggg cttgctcact catggtcaca gtaaaatatt 120
tatgcaagta tataccacct tacataaacc tcacttttaga taccctcaag tgattgcaca 180
tcaagatctt gcaaattgaa aaatacatta agtatgccat ggggttgact ttttatcaga 240
attcacacat gatttctttc ataagttcag gatcttttag ggtgcccata gccttgccca 300
tatttacgta ttttataaac ctacatttng gkatawgaag tcttttcytc tttttttgag 360
acgagtatcg ctctgtcgcc caggctggag tncagtggca ggatcttggc ccactgcaag 420
cn 422
```

<210> 141

<211> 1630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<400> 141

```
tggcggctct ggccgcctaa agaaggcgrc cgcggctcag cgtgggctct aacgcggggc 60
tggggggccg agacagactt cgcacagggt acgggtagta ggggcggcgc gcttggccctc 120
gtggggtgta agaccactt gctgttgccc cggacattg ccgccacacc agccctgtcc 180
tggggcgga cgaagaagg tcgggccctg ctgcccggcc ccgtccttcc tccttcccgg 240
gcggtcactg tgcgtggctc acttttagag tttacttcaa ccacgtggag cttccatggc 300
ggcctctcag gtcctggggg agaagattaa catcctgtcg ggagagactg tcaaagctgg 360
ggacagggac ccgctgggga acgactgtcc cgagcaagat aggtctcccc agcgtctctg 420
gaggcagaag tgtgcctcct acgtgttggc cctgaggcct ggagcttcag tgcctcactc 480
acaccgggtg ccctgggcag tgccttgcc tacagatccc acggtgtcct ggatcccagg 540
ctcttggttg gttgtgccgt ggctgtcctg gctgtgcacg gggccggtaa tttggtcaac 600
acttactatg acttttccaa gggcattgac cacaaaaaga gtgatgacag gacacttgtg 660
gaccgaatct tggagccgca ggatgtcgtc cggttcggag tcttctctta cacgttgggc 720
tgcgtctgtg ccgcttgccct ctactacctg tcccctctga aactggagca cttggctctt 780
atctactttg gaggcctgtc tggctccttt ctctacacag gaggaattgg attcaagtac 840
gtggctcttg gagacctcat catcctcatc acttttgccc cgctggctgt gatgttcgcc 900
tacgccatcc aggtgggggc cctggccatc tcccactgg tctatgccat cccctcgc 960
ctcagcaccg aggccattct ccattccaac aacaccaggg acatggagtc cgaccgggag 1020
gctgggtatcg tcacgttggc catcctcatc ggccccacgt tctcctacat tctctacaac 1080
acactgctct tcctgcccta cctggctctc agcatcctgg ccacacactg caccatcagc 1140
ctggcactcc ccctgcttac cattcccatg gccttctccc ttgagagaca gtttcgaagc 1200
caggccttca acaaactgcc ccagaggact gccaaactca acctcctgct gggacttttc 1260
tatgtctttg gcatcattct ggcaccagca ggcagtctgc ccaaaattta aggggacaag 1320
tagctcccc caccagatgt ctccctttct tagaatatat taaagtcaga gtctctgagg 1380
aaggaatgtg atttggcagt cagggtacta agcatgggtg ggaactcctg ccttataaaa 1440
attgtttttg tgttcttaaa gataatatgt tgttttctct ttttttgtt tttccatttt 1500
atgggggaat ttaaaaacca ttcttgatc agaagtgtaa ttaggcgcac ggtctttgtt 1560
```

ttattnaata aatttccact agaggggtgtt ctcagggtcac tttgcagtgg aagtgggact 1620  
tagttcctcc 1630

<210> 142

<211> 264

<212> DNA

<213> Homo sapiens

<400> 142

accaggatgt ctctgaaatg gacgtcakct ttctgctgat acagctcagt tgttacttta 60  
gctctggaag ctgtggaag gtgctagtgt ggcccacaga atacagccat tggataaata 120  
tgaagacaat cctggaagag cttgttcaga ggggtcatga ggtgactgtg gtwracatcy 180  
tcggcttcta ctcytgtcaa tgccagtaaa tcctctgcta tttaaattaga agtttatcct 240  
acatctttga actaaaaatt attt 264

<210> 143

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 143

antccacng gtggaggccg ctctagaact agtggatccc ccgggctgca ggtgcgggca 60  
attcgtctgg cgctggaagg ggttgatgtc aaactggaac aggccgcaag aacactgggg 120  
gcggggcgct ggcgcgtttt ctttactatc acgttaccgc tgaccttacc gggaattatt 180  
gttggtacgg tactggcttt tgctcgttct ctcggtgagt ttggtgcaca tcacctttgt 240  
gtcgaacatt cctggtgaan gcggaaccat tccttctgcc atgtataccc tgatccagac 300

ccccggcggg aaaagtggag cgnccgagact gtgccattat ttctattgcg ctggcgatga 360  
tctccctgtt gatttcagaa tggctggcca gaatcagccg tgaacgggcg gggcgctaata 420  
catgctggaa ctgaattttt cccagacgtt gggcaaccat tgcctgacta ttaatgaaan 480  
taccgtactt caatccataa agttgcgtta agccgcacgg ttcaaaacgg ctgggcacca 540  
gaatgacgtc cgcgcgcgcc ataatgcgat gcgaawatgc tcgtgatagc caatctgaac 600  
gccacactga ccgggggtatt tccgtgccgc cgcaag 636

<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 144

ccgccctcgg cgtcctctgt agcggggcgac ctaggccgcg ggacccggac ggaggtagag 60  
gccagggcag cgcgtccggg agcggagtcc gcgcccgcgc ccgccatgcc ggacagctgg 120  
gacaaggatg tgtacctga gccccgcgc cgcacgcgcg tgcagcccaa tcccatcgtc 180  
tacctgatga aagcgttcga cctcatcggt gaccgaccgc tgaccctcgt gagagaattt 240  
atagagcggc agcacgcaaa gaacagggtat tactactacc accggcagta ccgccgcgtg 300  
ccagacatca ctgagtgcaa ggaggaggac atcatgtgca tcaaaktcga ccaagaaatt 360  
atcacattat gcaggatcgg ytcaaagcyt ktcagcagag ggaaggacag actaccagca 420  
gactgtatca aggaaktgga gcagttaccc aggtggccaa ggctaccagg gaccgntatc 480  
aggacctgng ggcctacatg 500

<210> 145

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 145

ggcacgaggc tgctgctttc ctctctgtta aagagaatgt tcaaggccga ggacacataa 60  
aaaagagcag cattgtcggc tctgttatit agctgtgtgt tcttgaaaaa gtcacttctc 120  
cagacatatc tcagcattta taacctaaaga ctgaatcact gcattttacc cttaatgagg 180  
tacgcttaca ctaatctttt tgaaacagta cttaaattgt agcaggacaa gccgcagaca 240  
aaacccctca gccagcgagt ttaagaaaga agggctttat tcggccggga tcttcggcaa 300  
gactcacgtc tccaacaacc aagctcccca agtttcocgt tctgtcacct ccaggctgag 360  
ccgggcttggc ggaagaggca cgtgcgctgc tgaatggagc tggctcgtgg ttgctacgag 420



```
caggtcctct ttgggttcgc tgtacacccg gagcccgagg ctgcgggcga ccacgagcaa 480
tggactcttg tggctgactt cactcaccat gctcacactg cctccttgtc agcagtagct 540
gtaaatagtc gttttgtggt cactgggagc aaagatgaaa caattcacat ttatgacatg 600
aaaaagaaga ttgagcatgg ggctctagtg catcacagtg gtacaataac ttgcctgaaa 660
ttctatggca acaggcattt aatcagtgga gcggaagatg gactcatctg tatctgggat 720
gcaaagaaat gggaatgcct gaartcaatt aaagctcaca aaggacaggc gaccttcctt 780
tctattcacc catctggcaa gttggccctg tcggttggtg cagataaaaac tttaagaacg 840
tggaatcttg tagaaggaag atcagcattc ataaaaata taaaacaaaa tgctcacata 900
gtagaatggt cccaagagg agagcagtat gtagttatca tacagaataa aatagacatc 960
tatcagcttg aactgcatc cattagtggc accatcacaa atgaaaagag aatttcctct 1020
gttaaatctt tttcagagtc tgccttgca gtggttgga atgaagaagt tataagggtt 1080
tttgactgtg attcactagt gtgctctgca gaatttaaag ctcatgaaaa cagggttaaag 1140
gacatgttca gttttgaaat tccagagcat catgttattg tttcagcatc gagtgatggt 1200
ttcatcaaaa tgtggaagct taagcaggat aagaaagtct ccccatcttt actctgtgaa 1260
ataaacacta atgccaggct gacgtgtctt ggagtgtggc tagacaaaagt ggacagcatg 1320
aaagaaagcc ttcctccagc tgcagagcct tctcctgtaa gtaaaagaaca gtccaaaatt 1380
ggcaaaaagg agcctggtga cacagtgcac aaagaagaaa agcgttcaaa acctaacaca 1440
aagaaacgcg gtttaacagg tgacagtaag aaagcaacaa aagaaagtgg cctgatatac 1500
accaagaaga ggaatatggt agaaatgttg gaaaagaaga ggaataagar gaaaataaaa 1560
acaatgcagt gaatcacaga tgtctcctga aagaactctt ttagatgaaa tcattctact 1620
caaatgtacc ttaatttttt tttttccct gagtaaaagc aagaaatttc ttcctttgga 1680
aaaaatatat atattaaaaa accactttta gatgggtttt tttaaaaaaa aaaaaaaact 1740
ggtaaaatta cttttggcag acagtgtttt atgaattatg tatcatgttg atatataata 1800
tgtaaatgtg tcatgtaatt tttactttgt acaaagcaaa taaagatctt tctcaaaata 1860
tactgtaaaa taatataaaa tattgaacac attctttatc aaaaaaaaaa aaaaaaaaaa 1920
ttactgcggt ccgnaaggg aattc 1945
```

<210> 146

<211> 1114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1034)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1108)

<223> n equals a,t,g, or c

<400> 146

```
agagtgcgct gcgtttcgat gagccgggac gtggcgccrc tctagccagc gcctgggctc 60
tgtggcgggc gccgcagctc cgcgtccccc gcgcctcctc ccagcgcaga cttcaagggc 120
taccactgga cccctccctt gtcttgaacc ctgagccggc accatgcacg gacgcctgaa 180
ggtgaagacg tcagaagagc aggcggaggc caaaaaggcta gagcgagagc agaagctgaa 240
gctataccag tcagccaccc aggcctgtatt ccagaagcgc caggctgggtg agctggatga 300
gtccgtgctg gaactgacaa gccagattct gggagccaac cctgattttg ccaccctctg 360
gaactgccga cgagaggtgc tccagcagct ggagactcag aagtctcctg aagagttggc 420
tgctctgggt aaggcagaac tgggcttcct ggagagctgc ctgcgggtga accccaagtc 480
ttatggtacc tggcaccacc gatgctggct gctaggcsgc ctgcctgagc ccaactggac 540
ccgagagctg gagctctgtg cccgtttcct ggaggtggat gagcggaact ttcactgctg 600
ggactatcgg cggtttgtgg ccacacaggc agccgtgcc cctgcagaag arctagcctt 660
cactgacagc ctcacacccc gaaactttct caactactot tcctggcatt accgctcctg 720
tctcttgccc cagctgcacc cccagccgga ttctggacca caggggcgc tccctgagga 780
tgtgctgctc aaagagctgg agctgggtgca gaatgcttct tctactgacc caatgaccag 840
agtgcctggt tttatcaccc ttggttccta ggccgagctg acccccagga tgcactgcgc 900
tgccctgcatg tgagccggga csaggcctgt ctgactgtct ccttctctcg gscctcttta 960
rtgggctyca ggatkgagat cttgctgctc atgggtgatg aatctncccc tgattgtgga 1020
atggaggacc ccanatggca ggaacccggg ccaanctgtc tggatttcca agatggtggg 1080
gcanaaattg ggctggggca aggcctggntg gaaa 1114
```

<210> 147

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<400> 147

```
ctcgggctga gtagtggcgt ggccgtgagg tccctgcgcc tgcgccctgg atggtcctgg 60
tgccgctccc gccttcgcag ccagcgcggg cttacctagt gttaagtctc tcttcttggg 120
tggccacgac ctaagcgacc tatgcttctt gttcttctga aatcttacag ttccccttag 180
atgtaggttg gctatttgta gcttccgatt cagataagtt tggaacttga cagatgtttt 240
cgggggggctg ctttagagag aggcctttgga ctatgcaagg ggaggaagga ggttcagaaa 300
aacggggctg gggggctcgc aggacgactc ttraartgtg gaagggtgga gctgggaggg 360
gagataaagg gcaccraaga ccagcttggt tgctcctatc aagggtgatcc tttccagagc 420
aagagccata tgnatgtcta gtcgcacgag tttgtgccaa gtccttttga aaaaccttca 480
```

gatgtnggat ctcatgtaat cttgaagaca tcttagtcgt cctaagggtt aattatttaa 540  
ttgatg 546

<210> 148

<211> 1763

<212> DNA

<213> Homo sapiens

<400> 148

ccgacccag ccctagcctc tggggcattg tctgcccttc gccgtcgccc ctccgcctag 60  
ccgcgcactt ccgcctctcc cacccttcctt tcgcccttcc accakacctc cctcgacgcc 120  
cgacagctgc tctgggtact gtttcgggt cagggtgacc tctggggtga ggaaactgcg 180  
actgggagcg ggaccagcg gtgcagcatt cgccatgctc cgctcacgcg tgggagactg 240  
ggctgtgggg taccggcccg gaaagcacgc agcctccaaa gccgccttcc tcagggaaat 300  
ttgcgtgacc ttactgccct ccgtctacag gccttgtagc tctccaggcc gatttttcca 360  
caatttaaat ccagttcac ctggtatcca gctccagcaa cttagagcgt ttcacgtcac 420  
gccggcgccc aggcgtcggc ttgtataacc tgaaaacgct cctgtttttc tcatctgtgc 480  
agtgggtttt gattcccacc atggccatca ccagtttcg gttattttaa tttgtacct 540  
gcctagcaac agtattctca ttctaaaga gattaatatg cagatctggc agaggacgga 600  
aattaagtgg agaccaaata actttgccaa ctacagttga ttattcatca gttcctaagc 660  
agacagatgt tgaagagtgg acttcctggg atgaagatgc acccaccagt gtaagatcg 720  
aaggagggaa tgggaatgtg gcaacacaac aaaattcttt ggaacaactg gaacctgact 780  
attttaagga catgacacca actattagga aaactcagaa aattgttatt aagaagagag 840  
aaccattgaa ttttggcatc ccagatggga gcacaggttt ctctagtaga ttagcagcta 900  
cacaagatct gccttttatt catcagtcct ctgaattagg tgacttagat acctggcagg 960  
aaaataccaa tgcatgggaa gaagaagaag atgcagcctg gcaagcagaa gaagttctga 1020  
gacagcagaa actagcagac agagaaaaga gagcagccga acaacaaagg aagaaaatgg 1080  
aaaaggaagc acaacggcta atgaagaagg aacaaaacaa aattgggtgtg aaactttcat 1140  
aacacatgtt caaattttat catgccagta ggagaaatct cagctccaca acccaagcaa 1200  
catttgatg gatthaagag tattttaaga agacatactg cttgatttta atacattgat 1260  
caggccatcc aggacaccac gattctccca aagtacctg aactcttagt gattgagact 1320  
caaaaaaaca aaaaagactt gagacaatgt tttcttcaac atgctccaaa tataagacat 1380  
ttgtttgctg tacagaaagt atcacaaatg gaatatatca gtacctctca agctagtgtt 1440  
tctagctaaa taaatgggtg tatataatth tatggtggaa aagaactgta ctgtctgtta 1500  
tgatttcctt caatgtgcat aatgataaaa taaataatth taatattctt ttgtttccat 1560  
ggttacctga cctaaattag ataaattgta gggcttttagc tttcttattt ttgtcaaaag 1620  
ttggtgttga catacattcc ctctaatttg aactgggtatt gtttacgttt gatacaacat 1680  
taagggaatth gatgattttc atttcatgaa aatgacatta aatgcaataa ttttacttat 1740  
cataaaaaaa aaaaaaaaaa aaa 1763

<210> 149

<211> 371

<212> DNA

<213> Homo sapiens

<400> 149

aattcgccac gagcagactt gagagcaata aatgcaaacc taaatgagaa aatggaatcc 60  
ctgacagctg tgtccgtatc aagcatcagt ctctcaaaca gttgccccag cctgacagtg 120  
ctagtctctg tttaatggta aaaggagact ttgccataat tttcagatga agatgtttcc 180  
caaacactgt ttacagaatg agatgtgact ctacagatac ctcatagaag acaatccaag 240  
atcatacttc attaacttga cagagtacgt gtcttaagg aagcatcagg aattccaata 300

tttgcmttta aaatactttt twagggcctt ttatatagg ccatgcttgg aaaactggat 360  
tttttttatt a 371

<210> 150  
<211> 432  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<400> 150  
atnttcagga atcctcacgc aacccggaag aagcgcaagg gctggaccgc taaacctgag 60  
ggcgcccggc ctgcgcacgg gaacctggac tggaacccta cttgcaggtc cccaacttgc 120  
gtctctyctc tctgtctcta cccagccaa ggacaaagac ttctctccg gaaggcctcc 180  
cccagctgag ggaacgttcc aggtcytccc tcggccctgg ctgcgcgccc ggtgccggct 240  
ctgacgtggt ttctctctcc ctacaggactg gtctctgctg ctctctgtgg cctccctcgc 300  
ggcgcccttc ggytcctcct tcctctacgg ctacaacctg tcggtggtga atgccccam 360  
cccggaagga caattttgnt gggccaataa atggggtttt gaaatttntt gttggatttg 420  
ntgaatgggc tt 432

<210> 151  
<211> 401  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<400> 151  
gaaagcaaaag ttcaacatca ctggtgcctg cttgaatgac tcagatgacg actcaccaga 60  
cttggacctt gatggaaaag agagcscatt ggccctattg atgtctaacg gcagwacgaa 120

```

aaggggtgaag agtttatcca aatctcggcg aaccaagata gcaaagaagg tagacaaggc 180
taggctgatg gcagaacagg tgatggaaga cgartttgac ttggrttcag atgntgagct 240
gcagattgac gagagattgg ggaaagagaa ggcgaccctg ataataagac caaaatttcc 300
ccggaaattg ccccgctgca accttgctct gacccaacc gagttcgtga accaggagaa 360
gttgagtttg acattgagga ggatatacaa cagatgaggg t 401

```

<210> 152

<211> 851

<212> DNA

<213> Homo sapiens

<400> 152

```

tctccggata actgtgctcc tgacatcctt ccttatgggt ttgggaactg gtctaagatg 60
catacctata tcagacttaa tccttaaaag aagattaatt catggaggac agatgttaaa 120
tggattggca ggtccaactg taatgaatgc agcaccattt ctctctacga cgtgggtttc 180
tgcagatgaa agggccacag ccacagctat tgcacaaatg ctcagttatc ttgggggagc 240
atgtgcattt ttagttggac cacttggtgt tccagctccc aatgggacat caccctctct 300
tgctgcagag agcagcaggg cgcataattaa agatcgcata gaggctgtgt tatatgcaga 360
atttgaggtt gtctgcttaa tatctctgct aacactagct tatttcccac cccgacctcc 420
tcttctctcc agtggtgctg cagctagcca gcgtgagtta tcggagaagc gtttgtagat 480
tattaagcaa ttttcgattt ttgatgattg ctttagcata tgccatacca cttgggtgat 540
ttgctggctg gtctggagtt ctggaactta ttttaacacc agcgcagtgc agccaagtag 600
atgtctggctg gattggattt tggccatag ttggaggctg tgttggttga atagctatgg 660
caagggttgc agattttatc aggggtatgc tgaaactaat tcttctctct ctgttttcgg 720
gagctacact gtcacccacg tggttcacc tgamctgttt gaacagcatc acacacctac 780
ctttaaccac agtgacattg tatgcctcct gtattctcct gggagtgttc ttgaatagca 840
gcgtgcctat a 851

```

<210> 153

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1663)

<223> n equals a,t,g, or c

<400> 153

```

ctcgtgccgc acagctctgg gtgtgggagg gggttgtcca gcctccagca gcatggggag 60
ggccttggtc agcatctagg tgccaacagg gcaagggcgg ggtcctggag aatgaaggct 120
ttatagggct cctcagggag gccccccagc cccaaactca ccacctggcc gtggacacct 180
gtgtcagcat gtgggacctg gttctctcca tcgccttgct tgtgggggtgc actggtgccg 240
tgccccctcat ccagtctcgg attgtgggag gctgggagtg tgagaagcat tcccaacctc 300
ggcagggtggc tgtgtacagt catggatggg cactctgtgg ggggtgcctg gtgcaccccc 360
agtgggtgct cacagctgcc cattgcctaa agaagaatag ccagggtctg ctgggtcggc 420
acaacctgtt tgagcctgaa gacacaggcc agaggggtccc tgtcagccac agcttccac 480
acccgctcta caatatgagc cttctgaagc atcaaagcct tagaccagat gaagactcca 540
gccatgacct catgctgcty cgcctgtcag agcctgccaa gatcacagat gttgtgaagg 600
tcttgggcct gccacccagg agccagcact ggggaccacc tgctacgcct caggctgggg 660
cagcatcgaa ccagaggagt tcttgcgccc caggagtctt cagtgtgtga gcctccatct 720

```

```
cctgtccaat gacatgtgtg ctagagctta ctctgagaag gtgacagagt tcatgtttgtg 780
tgctgggctc tggacagggt gtaaagacac ttgtgggggt gattctgggg gtccacttgt 840
ctgtaatggt gtgcttcaag gtatcacatc atggggccct gagccatgtg ccctgcctga 900
aaagccctgct gtgtacacca aggtgggtgca ttaccggaag tggatcaagg acaccatcgc 960
agccaacccc tgagtgtccc tgtcccaccc ctacctctag taaatttaag tccacctcac 1020
gttctggcat cacttggcct ttctggatgc tggacacctg aagcttggaa ctcacctggc 1080
cgaagctcga gcctcctgag tctactgac ctgtgctttc tgggtgtggag tccagggctg 1140
ctaggaaaag gaatgggcag acacagggtgt atgccaatgt ttctgaaatg ggtataattt 1200
cgtcctctcc ttcggaacac tggctgtctc tgaagacttc tcgctcagtt tcagtgagga 1260
cacacacaaa gacgtgggtg accatgttgt ttgtgggggt cagagatggg aggggtgggg 1320
cccaccctgg aagagtggac agtgacacaa ggtggacact ctctacagat cactgaggat 1380
aagctggagc cacaatgcat gaggcacaca cacagcaagg atgacgctgt aaacatagcc 1440
cacgctgtcc tgggggacct gggaagccta gataaggccg tgagcagaaa gaaggggagg 1500
atcctcctat gttgttgaag gagggactag ggggagaaac tgaaagctga ttaattacag 1560
gaggtttgtt caggtcccc aaaccaccgt cagatttgat gatttcctag caggacttac 1620
agaaataaag agctatcatg ctgtgggtta aaaaaaaaaa aanaaaaaga agtcgacc 1678
```

<210> 154

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1148)

<223> n equals a,t,g, or c

<400> 154

```
ctttatggtg aaagccttac ggagatgtct gtgagtagca tatcttctgc aggctcttct 60
gtggcctctg ctgtccctc agcacgaccc cgccaccaga agtccatgtc cacttctgggt 120
catcctatta aagtcacact gccaacatt aaagacggct ctgaagctta ccggcctgggt 180
acaacccaga gagtgcctgc tgcttcccca tctgctcaca gtattagtagc tgcgactcca 240
gaccggaccc gtttccccc agggagctca agccgaagca ctttccatgg tgaacagctc 300
cgggagcgac gcagcgttgc ttataatggg ccacctgctt caccatccca tgaacgggt 360
gcatttgcaa tgccagaagg ggaacgtcaa ctggtataat aagcaaaatc acatccaaat 420
ttgttgcgag ggatccaagt gaaggcganc agntggcaga accgacacct caagaagtac 480
```

```

atcaggggaa ccaaaagaaa gagacaagga agagggtaaa gattctaagc cgcgttccttt 540
gcggttcaca tggagtatga agaccactag ttcaatggac cctaatagaca tgatgagaga 600
aatccgaaaa gtgttagatg caaataactg tgattatgag caaaaagaga gattttttgct 660
tttctgtgtc catggagacg ctagacagga tagcctcgtg cagtgggaga tgggaagtctg 720
caagttgccca cgactgtcac ttaatggggt tcgcttcaag cgaatatctg ggacatctat 780
tgcctttaag aacattgcat caaaaatagc aaatgagctt aagctgtaaa gaagtccaaa 840
tttacagggt caggggaagat acatacatat atgaggtaca gtttttgaat gtactggtaa 900
tgcctaattg ggtctgcctg tgaatctccc catgtagaat ttgcccttaa tgcaataagg 960
ttatacatag ttatgaactg taaaattaaa gtcagtatga actataataa atatctgtag 1020
cttaaaaaagt aggttcacat gtacaggtaa gtatatgtg tatttctgtt cattttctgt 1080
tcatagagtt gtataataaa acatgattgc ttaaaaaaaa aaaaaaaaaa aaaaattnct 1140
gcggccgnca agggaatt 1158

```

<210> 155

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 155

```

gccgcacgag cagccagaga cagcgcgacc cggagccgga gccagagcca gagccagagg 60
gaggacgcag ccgcgccggg gcgcagaacg accagctgag caccgggccc cgcgccgcgc 120
cggaggaggc cgagacgctg gcagagaccg agccaggtaa gcggcgaggc cggggaaggg 180
gggcagccca aggcggaccc ccagagctcg ggggtgcaggg acgcggggct ccgcggcgac 240
aggcagaggg accttcccgc ctccgcagcc acgcgcgcgc ccccggaatg aacctgagc 300
cccagcgtca gggcggcgca ggattctgac accgcaggat tcgcccgggt ccgtgccttc 360
cgttccctgg ggctcagaag ccggcgcgac tgcagcgcca ccgccttcca ccgtcccagg 420
agcggatccc gcccgcgcc accgcgacg ggcgccagcc ccccggtagt tatgagaant 480
aataataact tattaacagt gacaaagcag ggggtgacca gcaaagcctc cgtgtgcttc 540
ccaatcccgt gggcagtaaa gcggtatatt cggggttccc tccggtgtcc aggagagaga 600
gtccacttat tttctttcct gtcacttctg atgaggcgac cgaacgcctc gtttagcgaa 660
gagggaatta aagccagaa tgagcctgcc tctgcgtctc cagtggcaca agccctctct 720
tgcccacctg gatcctaaca ccgatgtct tttgggtctg ccttcccggg tatcttgctc 780
cacggcattt tccctgcctc cctctcccgc ctctcctcag cacacagatc cagaatcccc 840
atataattct actagacagt agggagaaa ttcaaccacg aaacgtctct aactttgggt 900
tcttgatgat tcttagcaaa tgaatgcgta ataaacatat ttactcactc ttactccgg 960
agagctcctt agtcatgtga aaaaagtga atgtatccac gatgacagtg ggctgtttgt 1020
tactcacta aagagataag ggtggattga attctgttct cttccctgct aacatgtaac 1080
ttttgtcttc ccatccctcc ttcccactc tctttccag aaaggcactt ggggtcttat 1140
ctgttggaact ctgaaaacac ttcaggcgcc cttccaaggc tccccaaac ccctaagcag 1200
ccgcagaagc gctcccagc tgccttctcc cactcaggt tgatcgagtt ggagaggaag 1260
ttcagccatc agaagtacct gtcggccct gaacgggccc acctggccaa gaacctcaag 1320
ctcacggaga ccaagtga gatatggttc cagaacagac gctataagac taagcgaaaag 1380
cagctctcct cggagctggg agacttgag aagcactcct ctttgccggc cctgaaaagag 1440
aggccttctc ccgggcctcc ctgggtctccg tgtataacag ctatccttac taccataacc 1500
tgtactgcgt gggcagtgga gccagcttt tkggtaatgc cagctcaggt gacaaccatt 1560
atgatcaaaa actgccttcc ccagggtgtc tctatgaaaa gcacaagggg ccaaggctcag 1620

```

```
ggagcaagag tgtgcacacc aamgctattg gagatttgcg tggaaakctc agattcttca 1680
ctgggtgagac aatgaaacaa cagagacagt gaaagtttta atacctaagt cattcctcca 1740
gtgcatactg taggtcattt tttttggttc tggctacctg tttgaagggg agagagggaa 1800
aatcaagtgg tattttccag cactttgtat gattttggat gagttgtaca cccaaggatt 1860
ctgttatgca actccatcct cctgtgtcac tgaatatcaa ctctgaaaga gcaaacctaa 1920
caggagaaag gacaaccagg atgaggatgt caccaactga attaaactc 1969
```

<210> 156  
<211> 400  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (398)  
<223> n equals a,t,g, or c

```
<400> 156
aattcggcac gagaagaaag aaagaatgaa agaaagaaaa gaaaagaaag aaaggaaaga 60
aaaaggaaag aaagaaagga aagaaaggaa agaaagaaag agagagaaag aaagaaggaa 120
aaggaggaag ggaattccag gtatatacca ctgcatgagt aaaggcaggg ttgtggatag 180
acatagttga tttgtagggc ccttgtttgc caagaatagt cctgctttac ccctgttgct 240
ctgatgtaat tattaataat actgcctcat tcagtcttaa ataagtcttg grtttgact 300
agaaattata tggctaccyc tttatgtggg actaaaagta attccttgrg acmgggacnt 360
ggagtnaggt gcccaaggaa agctagaagg tagttttntc 400
```

<210> 157  
<211> 722  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (720)  
<223> n equals a,t,g, or c

```
<400> 157
catggtttgg taacctcatg cactgtggga atgtcagagg accccgagat aatgcttcac 60
tgccaagtct gaaaattgtg tccacaagat ttgattggtg gtatcttcta tcattgtaca 120
acttaaaata tcttctaatt tccatttttt ttttttgaca tgagttgtat agaaatgtgt 180
gcttcagttt ctgttatagc aacaactcct gtcaccata gccttacaaa aattccta 240
```



```
tttaatatattt aaatttttaga attckacrag cagaattaca aaaagagtaa ctaacaagaa 300
agtgagattg tgatgggata acggaatgtc aagtctaatt gtcaggaaaa gacaaaaataa 360
catgggaatg acaatcaaaa tggactaagg acttagaaga tccgaaacta tgaagctact 420
aaaagaaaaca ttggggaatg ctccaggaca ttgggtctggg caaagatttc ttgagcaata 480
ccttaaaaagg acaggcaacc caagcaaaaa tggrcagwtg ggwtcmcwtc magctaaaaa 540
acttctacac agcgaaggaa acaaagttaa cagaataaca tgggaatggt ttctgtaatt 600
tagtagtaac tggcaatagt ttacaaacac attttggtgta tactgctgtc attgcactga 660
ttaccttctg ttgtagtgac tttgttctat tagtccactc aattaaaaata tttggttttn 720
tt 722
```

<210> 158

<211> 1200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 158

```
taatatctct ttggattcag agaccacaaa ctaccagatt gtcaatcatg accaaaagtt 60
gcttctcacc acttctacaa cccacaatg gaaaaagaac cgagtgcagc tgtatgagta 120
tgatactagg gaagatcagt ggattaatat aggtaccatg ttaggccttt tgcagtttga 180
ctctggcttt atttgccttt gtgctcgtgt ttatccttcc tgccttgaac ctggtcagag 240
ttttattact gaggaagatg atgcacggag tagntctagt actgaatggg acttagatgg 300
attcagtgcg ctggactctg agtcaggaag ttcaagttct ttttcagatg atgaagtctg 360
ggtgcaagta gcacctcagc gaaatgcaca ggatcagcag gggtctttgt aaatagtatt 420
ttgagacact aagatgtttc tactgctacg gratgtattt taaacacata tcgtttcttt 480
ttcttggaag aaaagttgat taggaccaca gatttggttt agaaagggta atattttgaa 540
atactacaag gtttagacag tccatgaatc gacctgttta ataatttacc atcctgaaag 600
tccagaatta aaatatggaa gcaagaacta tataattgat taggatgctt ggtagggttt 660
tttcattgtt caaatattca ttgcacagtg gattgttttg attagttagt atgctttttt 720
tttaattaat tcagctctct gttaattttt aagttttggt tagtgccaca aggaatttaa 780
ctttttgatt tgtataatag aaaactgaac taggaattgt tagcgggggt ttgaaggatg 840
tgtactttcc ttcaaaataa agtggttagat tttcaaaatt ttacactagt cagttcttta 900
tattctaagt taaatgtagt ttgtaaaatt attttggttt tcttctacaa aggaaaaaat 960
tggatttata tatataaggt tactgcataa tgatttcatt ttgataatgt gcagaatggc 1020
ctcataagct cacagaaagt aaaaaaaaaa aaaaaaaaaa aagaaaaaat caggattcca 1080
ctgtttttaa agaaatctca gtttttattt tggaatataa aatgtgtatt tggatatatg 1140
gaccaatttt ctatcccaaa aaacacccat tcttagtaat gtcatgaatt aaacaccctt 1200
```

<210> 159

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (321)  
<223> n equals a,t,g, or c

<400> 159  
ttcggcacga gagaaaagta aaaaaaagaa agaaagaaag aaacaaacaa acaaaacaac 60  
tggcatacat atatctccta aatacaggaa gaagtattca taatctcact ctttagcatg 120  
gtacaaagct aaccacaact aawttattgt atataargcc acgtgaagtg stgtgtgaca 180  
gccttatttt gtgaataggg ctgagaaaac cagttcaaat tctcctgaga ctatttcaga 240  
ggrgttaaaa tttgaactcg tttaaaaatc atgrtttatt tacttaatat taagtttagg 300  
ttaacgggca gaaaangagg ngcctggggg catcacccaa atttt 345

<210> 160  
<211> 476  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<400> 160  
aattcggcac gagagacacc agagtgaagg agagaggcca tgctgtgtcc gagaagctcc 60  
tactgggggtg gaaggacag ctccacaaag gctgctcttg caggggctct cctgcagcaa 120  
ggtgcctgct gactgtcccc agactgtctc ccgacacaga gggatgcaaa ggcagcctct 180  
tcctgctcag tggaataggg aaattatatc acctttcact tcccactctc acttctgccc 240  
ctgctaccct tagtcttttg cttttgctga cattttcccc tcttatcttt tctcctgacc 300  
aagttctagg tntttcatag ggcagtctta ggtgagggtt ggaaccccaa tgaagttggg 360  
caacagaaac ccagctnaca atggctgttc actgtgggca agctgtttcc cttcatctt 420  
ntaaaagtgg aggtgggggt agtgtatgag tctgggtttc cattcaactg tgtgtg 476

<210> 161  
<211> 520  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<400> 161

```
aattcggcac gagctgcgcg cggctacagc acggttcggt tttcctttag tcaggaagga 60
cggttggtgtt gaggttagca tacgtatcaa ggacagtaac taccatggct cccgaagttt 120
tgccaaaacc tcggatgcgt ggccttcttg ccaggcgtct gcgaaatcat atggctgtag 180
cattcgtgct atccctgggg gttgcagctt tgtataagtt tcgtgtggct gatcaaagaa 240
agaaggcata cgcagatttc tacagaaact acgatgtcat gaaagatttt gaggagatga 300
ggaaggcttg tatctttcag agtgtaaagt aatcttgga tataaagaat ttcttcaggt 360
tgaattacct agaagtttgt cactgacttg tgttctgaa ctatgacaca tgaatatgtg 420
ggctaagaaa tagttcctct tgataaataa acaattaaca aataaaaaaa aaaaaaagg 480
ggggggcccc tctaaaaggt ccaagcttac gnacgggtgn 520
```

<210> 162

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<400> 162

```
aattcggcac gagcgcgccct ccacgcccag ctaatttttg tatttttggt agagacgggg 60
tttcttcacg ttggctaggc tgatcttgaa ctctgacct caagtggnt gcctgcctca 120
tcctcccaaa gtgctgggat tacaggcgtg acacctgcac ccacccatgc tctagtacat 180
cctaaagaat gccttttagtt cctctttcct gacattactc tgcttaaatt cccagattc 240
aagctttttg agaatcctat ctcagcattt tgggcatcag gccatgttat atataggtrc 300
acaacttcta ggccttggtt agttggacag gttnaaaag 339
```

<210> 163

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 163  
aattcggcag agcagaacat tggatatgcgg cacatgactg tagatcttct cattaataat 60  
aggcaacctg gtcaggtgca cgartctagg gttcagaatc caacaggctc aaattcaagt 120  
ccagctcagc cacgtggctg atgctgtctg aacctcagcg tcctcagctg ttaaacagag 180  
gtaaccatcc ccatctcagc agctttggga ggaaattaaa tgagatatat tggggatcca 240  
gataaccaat aaaatatcaa atcactttac cagttcaagc tcttaccact tcagtgattg 300  
catgggcttt atcactgacg gatggaactc aggggttcca gnggttcgng acccagc 357

<210> 164  
<211> 1079  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (831)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (993)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1058)  
<223> n equals a,t,g, or c

<400> 164  
ggcacgagct tggcctccag agtgctggga ttacaggtgt gagctaccgc gcccggccta 60  
ttatcttgta ctttctaact gagccctcta ttttctttat ttttaataata tttctcccca 120  
cttgagaatc acttggttagt tcttggtagg aattcagttg ggcaatgata acttttatgg 180  
gcaaaaacat tctattatag tgaacaaatg aarataacag cgtattttca atattttctt 240  
attccttaaa ttccactctt ttaacactat gcttaaccac ttaatgtgat gaaatattcc 300  
tanaagttaa atgactatta aagcatatat tggtgcatgt atatattaag tagccgatac 360  
tctaaatara rataccactg ttacagataa atggggcctt taaaaatatg aaaaacaaac 420  
ttgtgaaaat gtataaaaga tgcactgtgt gtttcaaatg gcactrtctt yttttcagta 480  
ctacaaaaac agaataatth tgaagtttta gaataaatgt aatatattta ctataattct 540  
aaatgtttta atgcttttct aaaaatgcaa aactatgatg tytagttgct ttattttacc 600  
tctatgtgat tatttttctt aattgttatt ttttataatc attatttttc tgaaccattc 660

ttctggcctc agaagtagga ctgaattcta ctattgctag gtgtgagaaa gtggtggtga 720  
gaaccttaga gcagtggaga tttgctacct ggtctgtgtt ttgagaagtg ccccttagaa 780  
agttaaaaga atgtagaaaa gatactcagt cttaatccta tgcaaaaaaa naaaatcaag 840  
taattgtttt cctatgrgga aaataacat gagctgtatc atgctactta gcttttatgt 900  
aaatatttct tatgkctcct ctattaagrg tatttactaa aactctgtaa tctccaaaat 960  
attgctatca aattacacac catgttttct atnattctca tagatctgcc ttataaacat 1020  
ttaaataaaa agtactatatt aatgatttaa aaaaaanaa aaaaaagaaa aaaaaaaa 1079

<210> 165

<211> 1325

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 165

ttaaaacaag atacatacat agtataaac acctcacagt gttaagattt atattgtgaa 60  
atgagacacc ctaccttcaa ttgttcatca gtgggtaaaa caaattctga tgtacattca 120  
ggacaaatga ttagccctaa atgaaactgt aataatttca gtggaaactc aatctgtttt 180  
tacctttaa cagtgaattt tacatgaatg aatgggttct tcaacttttt tttagtatga 240  
gaaaattata cagtgtctaa ttttcagaga ttctttccat atgttactaa aaaatgtttt 300  
gttcagccta acatactgag ttttttttaa ctttctaaat tattgaattt ccatcatgca 360  
ttcatccaaa attaaggcag actgtttgga ttcttccagt ggccagatga gctaaattaa 420  
atcacaaaag cagatgcttt tgtatgatct ccaaattgcc aactttaagg aaatattctc 480  
ttgaaattgt ctttaaagat cttttgcagc ttgacagata ccagactga gctggaactg 540  
gaatttgtct tcctattgac tctacttctt taaaagcggc tgcccattac attcctcagc 600  
tgtccttgca gttaggtgta catgtgactg agtgttggcc agtgagatga agtctcctca 660  
aaggaaggca gcatgtgtcc tttttcatcc cttcatcttg ctgctgggat tgtggatata 720  
acaggagccc tggcagctgt ctccagagga tcaaagccac acccaaagag taaggcagat 780  
tagagaccag aaagaccttg actacttccc tacttccact gctttttcct gcattkaagc 840  
cattgtaaat ctgggtgtgt tacatgaagt gaaaattaat tctttctgcc cttcagttct 900  
ttatcctgat accatttaac actgtctgaa ttaactagac tgcaataatt ctttcttttg 960  
aaagctttta aaggataatg tgcaattcac attaaaattg attttccatt gtcaattagt 1020  
tatactcatt ttctgcctt gatctttcat tagatatatt gtatctgctt ggaatatatt 1080  
atcttctttt taactgtgta attggtatt actaaaactc tgtaatctcc aaaatattgc 1140  
tatcaaatta cacaccatgt tttctatcat tctcatagat ctgccttata aacattttaa 1200  
taaaaagtac tatttaatga ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260  
aaaaaaaaag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggggggg ggnccaaaaa 1320  
aaaaa 1325

<210> 166

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 166

```
aattcggcac gagtttgcac ccaaattggtt tgacctttgt gcagtggctc ccattatcaa 60
ctggggaacc agtacaatct ttacctagtt actactgagg ttgttctctc tccatcacaa 120
aatttcatgc tatttatctg tgagaaaatg cctgaggact ttcacacagt aattcatctt 180
atctggaacc cttaggatca gatgtagacc gagcaaatgt caagttcaca gagaacacct 240
gtgtcttcag aacattaaag ggcaccatta gagcttggtt cccttcactt tacatgcaca 300
tttttggsat aagttngggg ctkratgatg ttgtcatags naatactget agratgrttg 360
ctgtactcat tcactnccaa aaaagggggg gntg 394
```

<210> 167

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (401)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (472)  
<223> n equals a,t,g, or c

<400> 167  
ataattgcgg ctcttttctcc tattcagatt ttacccagtg atggaaaaga tcaatttttct 60  
tgtggaaaatt cagtggctga ccaagccttc cttgattctc tctcagccag cacagctcag 120  
gncagttcgt cggctgccag caacaatcac caggtagctc tcacttcctc cttctggatg 180  
tggctggcct tacggaaaac agagcgtatt tgtgnaaggc ttgtgatgca ttatagctat 240  
tgccattccc caaaagcaaa aacaaagtcg ctttagggtg ttctgtggca tttctgttgg 300  
gtactaaciaa agaaatcacc tgttwagcct gataatgact gtttgcaaatt ttattataag 360  
agaaaaggca ggggtattgag ggttgctttt aggaagtctn nccatgatatt ggaacacaga 420  
ccccagaaac ttgcaaatac cctcttaggt taaggcatgg aaagaggagg angagagagg 480  
tcttgtttgt tgaggaggct catgtcaggc cttggcc 517

<210> 168  
<211> 341  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (335)  
<223> n equals a,t,g, or c

<400> 168  
cttccctcag ccttggcca acagcattct actttctgtc tctacggatt tracacttta 60  
gtagcctcat gtaggaagaa tcataatact tgyttttttg tgactggctt atttcactta 120  
gcataatatt ttcaatgttc atccattttg aagctccatg tgagtgggca ggaacttggt 180  
aactggaggc cttcactgag aagtgattaa ggtgatgaat acctgccagt gcagtggctt 240  
cacacctgta ctccagcact ttggggaggc caaggcagga agatcatttg agccccagga 300  
tttsgggacc accttkggca atatagttag acccngtggt t 341

<210> 169  
<211> 350  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (314)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (338)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<400> 169  
ttcggcacga ggtcttgact cctaccccc tacaacacat ataaaatcag ttccagatag 60  
atcacacatc taaatgtgaa atgcaaaaata ataaagcttt aagaaaaaaa gtaatggaac 120  
catcttcatg atcttagagt aagtagagat ttattaagta ggatattaaa ggaacactat 180  
aaatttaggg aaaaaatcaa tatattgatt atattaaaaa taaggaaactt ttcctcatta 240  
agaggccaca aagtatttgt agtatacaca tccaacaaaa gttccatatt ccngaattwtw 300  
tgganggaat nccnatggta cgttaaaaaa aggccagncc cangggggggg 350

<210> 170  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (111)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (143)  
<223> n equals a,t,g, or c

<400> 170  
aattcggcac gagacatggt gaacctgggc tctacataaa atacaaaaac ttagatgggc 60  
atggtggtgt gtgcctatag tcccactact tgtggggcta aggcaggagg ntcacttgag 120  
ccccggaggt cgaggctaca gtnagccaag agtgcactac tgtactccag ccagggcaag 180  
agagcgagac cctgtctcaa taaataaata aataaataaa taaataaata aataaataaa 240



```
taaaaaaaaa caaagttgat taagaaagga agtataggcc aggcacagtg gctcacacct 300
gtaatccttg cattttggaa ggctgaggca ggaggatcac tttaggcctg gtgtgttcaa 360
gaccagcctg gtcaacatag tgagacaytg tytytaccaa aaaaaggaag gaagggacac 420
atatcaaact gaaacaaaat t 441
```

<210> 171

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<400> 171

```
ttttcatgaa cctcttccct gggaaacctt atgactcaac agtcaaaggt gtccgaatag 60
taaagatggg ttctcagtga cagggtctgtg cccatgcctg gccttggata gactctgaaa 120
tgagattctt tgtttgattg atgggggtgat ggtttctgtt gtgtacattt gaaggaaacc 180
agtttcccca cccaaaattt ctaaggagtt taatcttttg ggtrtagggg agttaaacta 240
cactgagtca aggaagtaat tgattgcata ttctctctaa aagtcagcta tggrrttgata 300
ttgactaaaa caaactagca gttctcttcc accaccaagt cmgagcgtct gttcaccatt 360
ctgcatgggt aaaagracc acttagggat gggtaatgnt ncc 403
```

<210> 172

<211> 984

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 172

```
caagatatatt acttccgctc caaacaaaga tggggccagct aacgagcncg ggggaaacat 60
ccgcccggaa ggccacttga aggcacttcc gccctctctt aacatggagc cggcgggaag 120
gggtggtgtag ggccgggcga taatggcggc gtcgaggctg gagctaaacc tgggtcggct 180
gctatmccgc tgcgaggcga tggcagcgga gaaacgggac ccggacgagt ggcgcctgga 240
gaagtacgtg ggagccctag aggacatggt gcaggccctg aagggtccacg cgagcaaacc 300
ggcctctgag gtgatcaatg aatattcctg gaagggtggat tttctgaagg ggatgctgca 360
agccgagaag ctgacctcct cctcagagaa agcactggcc aaccagttcc tggcccttg 420
ccgtgtgccca accacagcca gagagcgagt gcccgccaca aagacggtgc atctgcagtc 480
acgggcgcgcg tacaccagcg agatgcggag tgagctacta ggcacggact ctgcagagcc 540
tgaratggac gtaaggaaaga gaactggagt ggcagggtcc cagccagtga gtgagaagca 600
gtcggcagct gagctagacc tcgtcctgca gcgacatcag aacctccagg aaaagctggc 660
```

```
ggaagagatg ctaggactgg cccggagcct caagaccaat accctggccg cccagagtgt 720
catcaagaag gacaaccaga cctgtcaca ctcactgaaa atggcggacc agaacctgga 780
gaaactgaag acggagtcag agcgtctgga gcagcacacg cagaagtcag tcaactggct 840
gctctgggcc atgctcatta tegtctgctt catcttcatt agcatgatcc tcttcattcg 900
aatcatgcct aaactcaaat aaagaccccc gcccaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaa                                     984
```

<210> 173

<211> 1194

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1192)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 173

```

cgnggcggna anntantggc cccccctaa agggaacaaa agctggagct ccaccgcggt 60
ggcggccgct ctagaactag tggatccccc gggctgcagg caaaagggan aattcaaaat 120
ttagaaaaaa cattagaaat gttaatatgg gatatttttg acttaagaca ttcagaaaaag 180
ttaatgtttt aacacgatat gtgattatag aattctattc atatatgtgt tcacatttat 240
acactttgct atactttgta tttataaata taattctgtt agataaataa gtgattcata 300
ttttgtcaaa actattttta aatttcaata tttaaaatat ttttgaatca ctgggttttcg 360
ttaagtggca tcatagrtga gatttgattc catgtagcat ataatttttag attgttcctc 420
tctcacccct tttaaactcc ttcaagcatt gctattactg gggttgcctt tgggaaaact 480
tacttctaga tactaccata tatctgaaat agtagagggt gatgttaata aaattcataa 540
aataatcatg tattactttt tttgatttac cactggaagg aaatacagtc atgtgcaata 600
taatgacgtt ttggctcatt agaccacat gtgtgacagt ggtcccataa ggatgttgct 660
gaaaaattcc tgttgctgcc tagtgacact gtagccatcg taacgccata gcacgacacg 720
ttactcacct gttcatgggt atgctgggtg aaacaaacct gtgctgccag tcatacaaaa 780
gtatagcaca atgacaatta tgtacagttt atcataattc ttgataataa atgactatgt 840
tacaggttta tgtattgatt ccaacttttg tcattatttt ggaatgtact cctactaatt 900
ataaaaaaga aaagggttaac tgtaaaaaag cctcaggcag gtccttttag aggcattcca 960
gaagaagaca ttgttaccat aggagatgac agctctatgt gtgttattgc ccctgaagac 1020
cttctagtgg gacaggatat ggaggggaaa gacagtgaca ttggtgatcc tgaccctgtg 1080
taggcctagg ctaatgtgtg tgtgtcctcg tttttaacaa gaaagttaa aaagtaaaaa 1140
aaaaraaaaa ggnctcgaga aaggggcaaaa gggcncttgg gcaaatggca gnac 1194

```

&lt;210&gt; 174

&lt;211&gt; 701

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

```

gcttccactg atcttgccca tctgatgtta ccatgtttgt tgtaaaggaa gagactggca 60
ttctggacaa ctggcatcag agactggctg acatggagaa ccactctgt gtgtgctgag 120
grcagggcac tcaccagtgc agaggcagaa gtgggtgcct gtcctogagg gttaaaccgc 180
tttgctccc gccacagcc cctccacct ctaaaagctc aagagatgat cagactgaaa 240
caccgcccc tcttgctgtt ctgcctaggc tggaagacct ggcccaggtc atggaggccc 300
ctgctccact tgccagatc gcaggagtct tctgaccaga gctgtcgac cttgctgctg 360
ccactggcac tgctgccatt ctcatcctct tgggggcctt cattgggtgcc acattctttg 420
tagccacctg ggctgtcagc catgagggaa ggacctctgt ttagtctcg gattgtaagg 480
tttccatctc tgtaccttct cacaagaag agtcagggcc caagcttaat gacctgtttt 540
ttaattcagg aaggtaaatc tcgttctctc gtcacaccgc gaattacagg tccatttgct 600
ctcagtggga gttgatcttt gattcctaca aagaacaata aagtccggtg aattcccata 660
aaaaaaaaa aaaaaaaact cggggggggg ccccggtaac c 701

```

&lt;210&gt; 175

&lt;211&gt; 1181

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (24)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (79)  
<223> n equals a,t,g, or c

<400> 175  
tgggganatt tccccgaacc ggcnttcccg ggtcgaccca cgcgtccgag gacgcgtggg 60  
ccaaagtgtt gtgtgtgtnl gtgtgagtgg gtgcgtggta tacatgtgta catatatgta 120  
taatataat ctacaatata tattatata atctatatca ttttctgtg gagggttgcc 180  
atggtaacca gccacagtac atatgtaatt ctttccatca ccccaacctc tcctttctgt 240  
gcattcatgc aagagtttct tgtaagccat cagaagttac ttttaggatg ggggagaggg 300  
gcgagaaggg gaaaaatggg aaatagtctg attttaatga aatcaaatgt atgtatcatc 360  
agttggctac gttttgggtc tatgctaaac tgtgaaaaat cagatgaatt gataaaagag 420  
ttccctgcaa ccaattgaaa agtgttctgt gcgtctgttt tgtgtctggt gcagaatatg 480  
acaatctacc aactgtccct ttgtttgaag ttggtttagc tttggaaagt tactgtaaat 540  
gccttgcttg tatgatcgtc cctggtcacc cgactttgga atttgcacca tcatgtttca 600  
gtgaagatgc tgtaaatagg ttacagatttt actgtctatg gatttggggg gttacagtag 660  
ccttattcac ctttttaata aaaatacaca tgaaaacaag aaagaaatgg cttttcttac 720  
ccagattgtg tacatagagc aatgttggtt ttttataaag tctaagcaag atgttttgta 780  
taaaatctga attttgcaat gtatttagct acagcttggt taacggcagt gtcattcccc 840  
tttgactgt aatgaggaaa aaatggtata aaagggtgcc aaattgctgc atatttgtgc 900  
cgtaattatg taccatgaat atttatttaa aatttcgttg tccaatttgt aagtaacaca 960  
gtattatgcc tgagttataa atattttttt ctttctttgt tttattttta tagcctgtca 1020  
taggttttaa atctgcttta gtttcacatt gcagtttagc ccagaaaatg aaatccgtga 1080  
agtcacattc cacatctgtt tcaaaactgaa tttgttctta aaaaaataaa atattttttt 1140  
cctatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1181

<210> 176  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 176  
aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctgggtga 60  
cagrgggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120  
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180  
ctatcctgat gtataatata gcaggataaa ttacaccaag cgctatagtt ataaatatgg 240  
catgaagtga actatggcct tttatttcct tccagtgtga acacagcagg tgtgagatgt 300  
catcttgga gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360  
catgaaccat tcattaaccc tttgtatctt tgagtgaata ttttactcaa aagttgcate 420

tggaagttcg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480  
aaaaaaaaa 489

<210> 177

<211> 253

<212> DNA

<213> Homo sapiens

<400> 177

aattcggcac gagcccgggw caggcacaca ggcccagggtg tgtagggcac agcagccgca 60  
gtcctgaaaag sctgcaacac ccagacctcc aggagagacc agggccagga tgcctcgcc 120  
gttcttggtc cacctgctag aattctgttt actactgaac caattttcca gagcagtcgc 180  
ggccaaatgg aaggacgatg tkattaaatt atgcggccgc gaattagttc gsgcgcarat 240  
tgccattttg ggg 253

<210> 178

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<400> 178

aattcggcac gagagcttat tcattgaagg agtaagtggc tgctcactcc tttctgctga 60  
aactctttcc tgccttgta gcctagtgtg gaatgggagc agggtcacag tgaaagagct 120  
gaatctcccc acccaccac actgcagcag gctgcggctg gccgacttgt taattgccga 180  
gcaggaacac agcagcaagc tgcgggcacc cctnacttgc tacagttgat ggctgtgtgt 240  
ctctcccagg acctagagaa aacccgsctt gtgtacgagc gcactactat cggcacattg 300  
ttcatgtcct tcatgaacgr gtaaaactgct gtttccgtgg rttttcaaaa aaaaaaaaaa 360  
aaaaaaaaa aaa'aaaaaag ctcgagggtg ggc 393

<210> 179

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 179

attataagcg acgatgggtc tgttgctatg aacacagcag tcgggtccctg tcattgtcca 60  
cccaggagtg gccttggtta ttccaagtgg catgtatctt ccctctgagc ttcattttctt 120  
caagatgctc tgggtgggtg gatgggagac catcctgcag ccctcctcag accttatcaa 180  
ttcattgaga gattgcaaag ctgaaagcac ctccggccac tcctgggaga cagacccttt 240  
ggtgatgaaa taaaccagtg acttcagagc ctatgggtct aactgtgctt gaaaaaact 300  
gtctctgaaa acaactttgt gattctccct gctccctgtg gacaaaagca cataattctg 360

ctgttacggg tacttgnstc atacgagctt tcatgttcag catgcaatgg aatcatgctt 420  
gtccatgtga aataaatatg gctctctcgt gtccttaaaa aaaaa 465

<210> 180

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<400> 180

cttgggttca gggaaaccag agattatacc aagacgggtc attctgcgcc atggaaaaca 60  
tccttggnat ttaattgctg ctgacaataa aggtaagggc tgggcttgga tacagcattc 120  
cccagataga gatgctagan aaagtgcata gctatggggc gcacagctct gtttgccttc 180  
atcattgtaa cccgtagaaa gaaaacttga gtaagggtcaa ggtttccatg ctttccttaa 240  
agtgtggagc cttttattcc atgaaaaggt tatacaaaaa tccaggttat caagcaaata 300  
aacaagcagt tcttactcag ataaacaaga tacacccct caccctacct gctcaatttc 360  
tctttctcca ctccccaaa cccacctcca ttgtagttcc tgcagggggc cccgtaagyt 420  
tattttgaaa atcactaggg tgggctkggg cgcgggtggst tcaggatgtw aatyccagca 480  
ctttgggggrg ggccnnggga aggcagttca ttttgggggc aaggggtttt tg 532

<210> 181

<211> 814

<212> DNA

<213> Homo sapiens

<400> 181

aattcggcag agtaaaattc aaataattat aagcatttgg caaaaacaag agaaaagaaa 60  
cttgccatat ttacaagct gcaatttttag aaaagcttta acttaatgat agttttatca 120  
ttgttttctt gtcccaaact tatccagggc catagaagta tgaatctaata taaaacagaa 180  
atgggaatta ttgcacagaa atgggaaata actaatttta aatcagtcga attggcttct 240  
tattaaatac aataattctt atgraaatca tagtacccta ttttcagaca cagctgccag 300  
tttacacatt tctcagtatc ctgaarggra aaaagtatag ccccrcttat actatgtaaa 360  
attaccaata aaatattttt atgactacag attttgcatt tttgtttaca actattttaa 420  
gagttttatg ttgtatttag aatttcaacc tagaaaccac acagtactta aattctcctg 480  
gggtctcctg ctttctctta accatttgcct taatatatat ctacctaaag gagacttctg 540  
aattgtaaat gaacttaaaa atagaatgtg gatgcaaaat atcacataag acatcatgat 600  
aacatttgaa gaaaaaataa aactgtagac cctaacagtt gtgatatttg gtggkttcat 660

gtggtaatgt aatcttctgk ttaattacag tactttttac aggcacagtg gkactgtctt 720  
ttttgtaaga tgcyagttgt gaaatacaat taattgcata cagtaaaagt ctgtgattaa 780  
aacatttata tacctcaaaa aaaaaaaaaa aaaa 814

<210> 182  
<211> 317  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<400> 182  
taattcggca cgaggaacca ctgttcctta caggtaagcc agcatgatag ttagaccaa 60  
ccatcccaat agagacttgg catgcattca acaaacatcc caggtgccca ggggtgtgcc 120  
agcaccattc caggagctgc cagtaaagga aacaagactg ctgtgtggcc aggtgcggtg 180  
gtcacatct gtaatctcag cactttggga atgccgaagt gagggtgatca cctgaggtca 240  
ggagttcaag accagcctgg gccaacatgg tgaaacccca ttttttactt aaaaaaaaaa 300  
aacttggggg ggggncc 317

<210> 183  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (169)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (181)  
<223> n equals a,t,g, or c

<400> 183  
tataaaagaa aaaaaaaggc tgtacaaaaa tttcttttrt acagagactg trtaaaagaa 60  
aaaaaaaaag aaatacmtgt gttcttaaaa ccatttgtat attttcattt ctagaccaca 120  
ctgtagctaa ttattgttat taaatgttaa gataatttaa gtatataana taagtattga 180  
nccgggcatg gtggctcacc cctgtaaatc tcagcacttt gggaaggctg aaggcggggg 240  
gtt 243

<210> 184  
<211> 1148  
<212> DNA  
<213> Homo sapiens

<400> 184  
aattcggcag aggggccata caaaaatttt ggacttgta ataccactta ctaaccgggc 60

```
ctgtaacact gggctaaaca aagtaagccc tgtttactca gcagtgtttg ggggacatga 120
agattgccta gaaatattac tccggaatgg ctacagccca gacgcccagg cgtgccttgt 180
ttttggattc agttctcctg wgtgcatggc tttccaaagg agtggagctg tragttcttt 240
ggaattgtga acattctttt gaaatatgga gccagataa atgaacttca ttggcatac 300
tgccctgaagt acgagaagtt ttcgatattt cgctactttt tgaggaaaagg ttgctcattg 360
ggaccatgga accatatata tgaatttgta aatcatgcaa ttaaagcaca agcaaaatat 420
aaggagtggg tgccacatct tctggttgct ggatttgacc cactgattct actgtgcaat 480
tcttggattg actcagtcag cattgacacc cttatcttca ctttggagtt tactaattgg 540
aagacacttg caccagctgt tgaaaggatg ctctctgctc gtgcctcaaa cgcttggatt 600
ctacagcaac atattgccac tgttccatcc ctgacccatc tttgtcgttt ggaaattcgg 660
tccagtctaa aatcagaacg tctacggtct gacagttata ttagtcagct gccacttccc 720
agaagcctac ataattattt gctctatgaa gacgttctga ggatgtatga agttccagaa 780
ctggcagcta ttcaagatgg ataaatcagt gaaactactt aacacagcta atttttttct 840
ctgaaaaatc atcgagacaa aagagccaca gagtacaagt ttttatgatt ttatagtcaa 900
aagatgatta ttgattgtsa gataggttag gttttggggg gccagtagtt cagtgagaat 960
gtttatgttt acaactagcc ttcccagtaa aaaaaaaaaa aaaaaaaatt gtaaacatca 1020
cttatattac tttattgcag cttcatcacc agtacattat atgttgtaat atttatttac 1080
ctgatcattt tgatcatttt ctgctttatt ttgctaataa actgtgatgt tacttctaaa 1140
aaaaaaaa 1148
```

<210> 185

<211> 1971

<212> DNA

<213> Homo sapiens

<400> 185

```
gtactttaac aattcmcart actatagtay tgggaattgt taaaagtaca ttcctctgaa 60
agataagaat cactggcttc tatgcgcttc tttctctca tcatcatgtt cttttacccc 120
agtttcctta cattttttta aattgtttca gagtttgttt tttttttagt ttagattgtg 180
aggcaattat taaatcaaaa ttaattcatc caataccctt ttactagaag ttttactaga 240
aaatgtatta cattttattt tttcttaatc cagttctgca aaaatgacct ataaatttat 300
tcatgtacaa ttttggttac ttgaattgtt aaagaaaaca ttgtttttga ctatgggagt 360
caactcaaca tggcagaacc atttttgaga tgatgataca acaggtagtg aaacagctta 420
agaattccaa aaaaaaaaaa aaaaaaaaaa aaaaagcaaa actggggttg ggctttgctt 480
taggtatcac tggattagaa tgagttaaac attagctaaa actgctttga gttgtttgga 540
tgattaagag attgccattt ttatcttgga agaactagtg gtaaaacatc caagagcact 600
aggattgtga tacagaattt gtgaggtttg gtggatccac gccctctcc cccactttcc 660
catgatgaaa tatcactaat aaatcctgta tatttagata ttatgctagc catgtaatca 720
gatttattta attgggtggg gcagggtgtg atttacttta gaaaaaatga aaaagacaag 780
atztatgaga aatatttgaa ggcagtacac tctggccaac tgttaccagt tggattttct 840
acaagttcag aatattttta acctgattta ctagacctgg gaattttcaa catggtctaa 900
ttatttactc aaagacatag atgtgaaaat tttaggcaac cttctaaatc tttttcacca 960
tggatgaaac tataacttaa agaataatac ttagaagggt taattggaaa tcagagttag 1020
aaataaaaact tggaccactt tgtatacact cttctcactt gacatttttag ctatataata 1080
tgtactttga gtataacatc aagctttaac aaatatttta agacaaaaaa atcacgtcag 1140
taaaatacta aaaggctcat ttttatattt gtttttagatg ttttaaatag ttgcaatgga 1200
ttaaaaaatga tgatttaaaa tgttgcttgt aatacagttt tgcctgctaa attctccaca 1260
ttttgtaacc tgttttattt ctttgggtgt aaagcggttt tgcttagtat tgtgatattg 1320
tatatgtttt gtcccagttg tatagtaatg ttccagtcca tcatccagct ttggctgctg 1380
aaatcataca gctgtgaaga cttgcctttg tttctgttag actgcttttc agttctgtat 1440
tgagtatctt aagtactgta gaaaagatgt cacttcttcc ttttaaggctg ttttgaataa 1500
```



tatataagga ctggaattgt gtttttaaag aaaagcattc aagtatgaca atatactatc 1560  
tgtgttttca ccattcaaag tgctgttttag tagttgaaac ttaaaactatt taatgtcatt 1620  
taataaagtg accaaaatgt gttgtgctct ttattgtatt ttcacagctt tgaaaatctg 1680  
tgcacatact gtttcataga aaatgtatag cttttgttgt sctatataat ggtggttctt 1740  
ttgcacattt agttattttaa tattgagagg tcacgagttt ggttattgaa tctgtttatat 1800  
actaaattct gtaaaggagg atctctcatc tcaaaaagaa tttacatacc aggaagtcca 1860  
tgtgtgtttg tgtttagtttt ggatgtcttt gtgtaatcca gccccatttc ctgtttccca 1920  
acagctgtaa cactcatttt aagtcaagca gggctaccaa cccacacttg a 1971

<210> 186

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 186

aataacaatg taattatttt yggcakascc ttgcctgact tctgaggacc tcactaagtc 60  
tagttctagc cttttagaa tggcactt ctttcatcaa ggctttggtt tcattactgg 120  
tgtctgaatt agttccactc ctagcttgac ccagatttta gtttttatta tggatttttt 180  
cttcaaactt gtttatttaa tattaagttt tcatTTTTtg cagcatatgg atgattttat 240  
ttttaataat catatctctt agtaaaactaa tggktaaata atattaaagt ataagaggct 300  
aaaattgggc caggtgtggt ggctcacgcc tgtaaatccc cgcactttng gngggctgag 360  
gcaggn 366

<210> 187

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<400> 187

aattcggcac gagaaagagt tgccaaaaat aaaaaatatt attgtaaggt aaaaaatttc 60  
ataaatgggc ctaatagtggt gatggatata actgaaaact aagatggtga tgaggaagac 120

```
agtcagaat aaatatacca aagtagcaaa gaaatacctg tgcaagtaga atagcttgct 180
tcaaacagat gagatttgct ctccaacat caaaacatat cacaaaaacta cagtaattaa 240
gtccctttga ggccagcact gactgggrta agcaaatagr taaatgggat gtaacaggcc 300
ttatttcaac taatagggtg ttcaccactc ctagttggtt ncctgtttcc 350
```

<210> 188

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 188

```
aattcggcac gagtgtaaac acctttnata caaatgccat catcccatTT ttactgatta 60
gaaaaacttt gctattaata ggtgcaaagt ccatttcagg tataattggt aaggaactga 120
gtgcactcat gggaagaaac cttgttttgt tttttgttcg cttttcttct tatccctttt 180
tctcagtttt atggctggag acatgattta ttgcagccat ccactctggg ggctcatcca 240
tcacacccgg gttgctagga gattgtggca gcagctgttt gctctgaatc agacagaaaa 300
gttgtcaatc atcaaaggca ggtgaatagc attagaaaca cgstattgtc agacggaata 360
attaatcaaa gagag 375
```

<210> 189

<211> 365

<212> DNA

<213> Homo sapiens

<400> 189

```
tcagacaaaa attctgtgga cagctgagag gaattcactt ttcctctgaa actcatagcc 60
ctctcctgaa tacatatggt gtgcactaac acttgccatt atctgaaact catagcccta 120
tcctgaatgc atatgctgta ggttaccact tgccattgga ggtcttggag gccatatcct 180
gtaggagcag ggtagccatg ggacttaact actattatcc cccaaaaatg ttgtgtttgt 240
gaattcacct gactgaggaa tccctaawta ttcacagat atttcaaaag grtccatgtt 300
ccmaagragg rggtttagta ttgatttttg gttgggtttg ttttatttga ggcagtgggg 360
gatga 365
```

<210> 190

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (801)

<223> n equals a,t,g, or c

<400> 190

```
ggcacgaggt taattttgaa acttatgctt aagattttaac cagggcagag gcatatttca 60
gcataaataa tgttgccatt ataaactctt atccttccta tctcaacagg aaatgagcaa 120
ttattgcttc atgcttcaat gcaactgtttt aaaataactgt ttaatttggt aaagggtgtga 180
actgtttaat ttatctcaca cgttttttta aacaaataact gattggacat gcgctgcacg 240
ccaggccttg ggcttggtac ctcagggttc tcacagggga ggctggaagt ggaaacaagc 300
acatgtgtaa ctgttggtga gacagtctaa ttggtagaaa atcagcgaac aaagaagcag 360
acaaattaga aaatgaacgt aagggtgatgt gctaaaaaga gggtagccat tatgtcagtg 420
tccttcagag aaggtagcac tccctgagac cggaatggca gaaagaagtc catcctgcct 480
agcccagctt ggacttggtg agaagcaggc tgataaaaga accaaatatt gtacattttg 540
aagaagttgc ccgctgactt gagagagagg tgttgcgttt cagggtgctga atgtccttat 600
aaaaagttga atatttcgag catctctatc aatacatttg aatgctgaga gcttttcctt 660
ccagaagctc atgtcatttt caacacacac ttctatttac ctttatgtag tttctaaaaa 720
ttgaaaacca gaattggagg tttttttaaa aaaaaaaaaa aaaaaagccg aggkgggnaa 780
agtamaaatg ngcctkwgcc ntttcctttc cccgtcc 817
```

<210> 191

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<400> 191

```
aattagaaaag tccaaagtcg acccaaagtg atattatggg cagaagtatg gtagagcaat 60
ccaaacaatt gggattatga atgggaaggt tgtaaaccct atattatttg cgtgtacgaa 120
ggaagaatcc tgtgacaagc acttactcca aaatgagtct acagttatac caagtggata 180
gtagaactta tctactggat ttccgtagta ttgatgatga aattacagaa gccaaatcag 240
ggactgctac tccacagaga tcgggatcag ttagcaacta tcgatcttgc caaaggagtg 300
attcagatgc tgaggctcaa ggaaaatcct cagaagtttc tcttacctca tctgtgacct 360
cacttgactc ttctcctggt gacctaacct caagacctgg aagtcacaca atagaatttt 420
```

ttgagatgtg tgcaaattcta attaaaaattc ttgcacaata aacagaaaaac ttgtcttatt 480  
tcttttgcag caataagcat gcataataag tcacagccca atgcttccca ttgtaatcca 540  
agttatacct aatttttaac cgggggttng ggntttngga ttgcaatttg 590

<210> 192

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<400> 192

ggcacgagaa ataaccagct gacagcatga cgacaggata aaatccacac ataccattac 60  
taaccttaaa tgaaaatggg ctaaatgctc ccattgaaag acacggggca agctggataa 120  
agaaccaaga cccactggag tatgctgtct tcaagaaacc catctcacat gcggtggcat 180  
acataggctc aaaataaagg aatggagaaa aatatttcaa gcaaatggaa aacagaaaaa 240  
agcaggtgtt gcactcctac tttctgacaa aacagrctwt gcggnnttaa ggkaaaaaa 300  
gnggaagg 308

<210> 193

<211> 343

<212> DNA

<213> Homo sapiens

<400> 193

aattcggcac gaggcctgga gaacctatgg tgattttcct gggcctgctc attgcccacc 60  
attgaaccaa tcagcacaca tgtcctctct tctgagccca taaaaaccct ggactcagcc 120  
agactcacac agacatcagg actaccagct gcgggaagga gctagccatc tcaggtctcc 180  
ttgaatcatc cagatgacct gcctgtggaa aggagctacc catcacaggt ctacttcctg 240  
atgagaactg gacattcttg ggatgacttg cctgcagaaa ggagcgacat attttgggtc 300  
tyctgagagc tgttctgttg ctcaatgaag ttccctcatg cag 343

<210> 194

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 194

```
aattcggcac gagaggatgat atacatgata cattctcaag agttgcttga ccgaaagtna 60
caaggacccc aacccctttg tcctctctac ccacagatgg ccctgggaat caattcctca 120
ggaattgccc tcaagaactc tgcttcttgc tttgcagagt gccatggtca tgtcattctg 180
aggtcacata acacataaaa ttagtttcta tgagtgtata ccattttaaag aatttttttt 240
tcagtaaaag ggaatattac aatgttggag gagagataag ttatagggag ctggatttca 300
aaacgtgggc caagattcaa aaatcctatt gatagtggcc attttaatca ttgccatcgt 360
gtgcttggtt catocagtgt tatgcacttt ccacagtggg acatgggtgtt agtatagcca 420
gacgggtttc attattattt ctctttgctt tctcaatggt aatttattgc atgggtttatt 480
ctttttcttt acagctgaaa ttgctttaaa tgatgggttaa aattacaaat taaattgtta 540
atttttatca atgtgattgt aattaaaaat attttgattt aaataacaaa aataatacca 600
gattttaagc cgtggaaaaat gttcttgatc atttgcagtt aaggacttta aataaatcaa 660
atgttaacaa aaaaaaaaaa aaaagtcgac 690
```

<210> 195

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<400> 195

```
tggaatctgg ctagaaagca gtaataaaca gaaatctgta tatgttttga aaaagtaaata 60
ctcaatggaa atcagaaaat attttgaact gaaatttggg gatgaaaata ctatatatgg 120
aaacttgtgg gatataattat agctaaagct gtgttagagg aaatttagag ccttacataa 180
atacatatat tataaaaggg aaaatattaa aagttaatgg anctaaggca tccatct 237
```

<210> 196

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 196

```
cccagagatg gacacatctt agtatgtact cagctttggg caaaanatag atggcggtcac 60
ctttcttcgc atgctgagct ccatagtaga ttgaggactt gggttggaag cagtaaggta 120
attgccaaag cccattatc aggtgggtac acatagagct tttgggagga acagatgcca 180
taagttatca gtttagtctt accttctctt tagagggaaa agaagttgga gaaagcgtct 240
gcagctaaca aaagggtactg nccttgg 267
```

<210> 197  
<211> 443  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<400> 197  
attgccaatg ataaaaatttg aactttcaag caaaaaatgca aatttttgaa aatgtgttat 60  
ttctgccact gagaacataa cagcatacca acacttttag actttttact tttatattgt 120  
ataatgaatg catcaacatt tggatgatct gtattacagg tgaaccaaca ttttccagta 180  
ttagtggtgg ggaatgaccg tgtcwgaagg cttgaccagg atggggatag ctcaaggagg 240  
caggatggct cattgcttat gtcttcttca ggaacacaat gaagtaggtt gagtttccag 300  
gatttgggcc ctgcattggg gatggttgga ggaaaggcca aaaacctagg ttcttycags 360  
ccatgggctt taaaaaacgt ggtacttttt aaggaacagg gttcanggca ggggtgtttt 420  
tggggctagg gttaaggaaa atg 443

<210> 198  
<211> 208  
<212> DNA  
<213> Homo sapiens

<400> 198  
gaaaatgtgc ctttttcagt tgtcacagmt ggggaatgtt actggcatcc ggtgggtaaa 60  
ggctagggat gctgctagac attctacggt gcacaggaca acccccacaa caaagaatta 120  
tctagcccaa aatgtcaaca atgctgaggt tgagaagycc taggaaacta aaacagtgtg 180  
ggggtttgta atttattgga aacctatgt 208

<210> 199  
<211> 258  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (160)  
<223> n equals a,t,g, or c

<400> 199  
attggttttg gccatgacac tgatttcctg gaggcaaggt gctgcttcya ttcaggaatg 60  
gggggtgcatg actgccctga gcagccaagg agccaattct ttaggaggct gagtgccatt 120  
tcagctcaag ccttcacggg gcagggccaa aagcaacttn gaggggtggg tggagcatct 180  
tccactgcag cttggcccca agaaataggw tgtagcagca gytcagcttg tgggatggtg 240  
cgcaacaatt tggggggg 258

<210> 200  
<211> 893  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (870)

<223> n equals a,t,g, or c

<400> 200

```
aggggtagtt tccacaatct aatccgggtg ccatacagagt agagggagta gagaatggat 60
gttgggtagg ccatcaataa ggtccattct gggcagtatc tcaactgccg ttcaacaatc 120
gcaagaggaa ggtggagcag gtttcttcat cttacagttg agaaaacaga gactcagaag 180
ggcttcttag ttcatgttcc ccttagcgcc tcagtgattt ttcatggtg gcttaggcca 240
aaagaaatat ctaaccattc aatttataaa taattaggtc cccaacgaat taaatattat 300
gtcctaccaaa cttattagct gcttgaaaaa tataatacac ataaataaaa aaatatattt 360
ttcatttcta ttccattgkt aatcacaaact acttactaag gagatgtatg cacctattgg 420
acactgtgca acttctcacc tggaaatgaga ttggacactg ctgccctcat tttctgctcc 480
atgttggtgt ccatatagta cttgattttt tatcagatgg cctggaaaac ccagtctcac 540
aaaaatatga aattatcaga aggattatag tgcaatctta tgttgaaaga atgaactacc 600
tcactagtag ttcacgtgat gtctgacaga tgttgagttt cattgtgttt gtgtgttcaa 660
atttttaaat attctgagat actcttgaga ggtcactcta atgccctggg tgccttggcc 720
agtttttagaa ataccagttg aaaatatttg ctcaggaata tgcaactagg aaggggcaga 780
atcagaattht aagctttcat attctagcct tcagtcttgt tcttcaacca tttttaggaa 840
ctttcccata aggttatggt ttccmgcccn rggsatgggg ggtcattggg gcc 893
```

<210> 201

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 201

```
aaactcactg gctgaaggag gaaatttttag aaggaagcta ctaaaagatc taatttgaaa 60
aactacaaaa gcattaacta aaaaagttha ttttcctttt gtctgggcag tagtgaaaat 120
aactactcac aacattcact atgtttgcaa ggaattaaca caaataaaag atgccttttt 180
acttaaacac caagacagaa aacttgccca atactgagaa gcaacttgca ttagagaggg 240
aactgttaaa tgttttcaac ccagttcatc tgggtgatgt ttttgagggt tactctgaga 300
attttgctta tgaaaaatca ttatttttag tgtagtccac aataatgtat tgaacatact 360
tctaatacaa ggtgctatgt ccttggtgat ggtactaaat gtgtcctgtg taccttttgc 420
acaactgaga atcctgcagc ttgggtttaa tgagtggggg catggaataa ttatgggggn 480
atgtaaaaaa aanaaaagag ggg 503
```

<210> 202

<211> 438  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<400> 202  
catgtgatca tttatgtgta tacagagtaa ttataaaatg tttgctgtgt acaaaactat 60  
tttatttagtg gatttttaaat acattaaatg ggtatatata gtatatatga tctaggagta 120  
tatataggga actctaacaa atttataata tttatttttt aaaagaatga ccaaacatgg 180  
caaaatatta ctatgagtta gatctggaca gtggatgcaa gggcttctcat tatgttattg 240  
tctgattttg tgttgaactt atttcacaat gcagaggaaa aaatagtctt ggctcatcct 300  
tagatatcac tgttcataga gccagtcacc aggacgatcc cacnttttat ggtgggccag 360  
gcattgggag tccagagccc atcacccaac naccaagtga cgggtgggga cncctggtgag 420  
cctgnaaaagg gggccatc 438

<210> 203  
<211> 876  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (778)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (786)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (804)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (817)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (835)  
<223> n equals a,t,g, or c

<400> 203  
cggcgatata tactaaattc gcgcgtgact tcatgagtag tagtgaatac aatcttcctg 60  
cttctaagct tgtgtctact agaatgtctt cccoctaaaa gatataattg aatgtttccc 120  
atgtttcttc tagtacttta atgcgtttca ttttcataty gaaatcattg atctacttct 180  
agtttykgat acaamatgtg agccaggaaa cccagttttt aaattttcaa tagctgtcca 240  
ggtgtccctg cacctcttat gcatgagccc tcgctttgtg ccaatgtgga gtgcccgcct 300  
gtcacacagt gcccatgtgg agtgcccgcc tgctcatgtg cccatgtgga gtgcccgcct 360  
gtcacacat gycgatgcgg agtgcccrcc tgctcacaca tgcccattgt gagtgcccgc 420  
ctgtcacac gtgcccattg ggagtgcggc cctgttcaca cacgtgtcca tgtggagtgc 480  
ccacctgtc atgtgcccatt gtggagtgcc cacctgtcga catgtgccga tgtggagtgc 540  
crctgtcga cacacgtgcc catgtggagt gcccgctgc tcacrygtgc cgatgcggag 600  
tgcccgcctg ctcacacgtg ccgatgcgga gtgcccgcct gtcacacagt gccgatgcgg 660  
agtgccgcc tgctcacacg tgcccattgc gagtgcccgc ctgtcacac gtgcccgcgc 720  
ggagtgcggc cctgttcaca cgtgccgacg cggagtgcgc gcctgtcac acgtgccnac 780  
gcggantgcc cgctgtcga cacntgccga cgcggantgc ccgcctgtc acacntgccc 840  
atgtggagtg ccgcctgtc acgttgccga tgtgga 876

<210> 204  
<211> 1504  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1468)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (1494)  
<223> n equals a,t,g, or c

<400> 204  
tgtnytcmt gtgcnacaac cygcygcaga ctggggcccy tctcagttaa ttgggtttca 60  
caagcaataa tttctccaca acaaaaacca caacttgaag tgagttgaaa agagatcaat 120  
agtggaaaca gtgcctcag tactttttct ttctggattt catctctaga aatttgaagt 180  
gtttgagaca gagtccaccc tttgtgcaag gcgagaacca atgaatggac tccttgtgtg 240  
aattattgca tcttcttcca aagcaggttc atcaagactt tcacagagat tcatttttgt 300  
tgagaagtaa gggttaatag gaggatagaa tttggatcca aatctagtga taaaagtgtc 360  
caagcaatca aaaagtaaga tatttttaggg acataccaac atcttccctt tctgctaatt 420  
tcatgtctca aagatatrgc aaaaaaaaa atcataaaaa gtgcttttgc cctacttgtg 480  
ttctagtttt cccatggcag aattttgtaa ttacatccag aatatagtgt atattttgtt 540  
cctcaaactt tattacattg gatggatatt gttgractgg ggcactggtg cctatatcca 600  
aggctctttc ctatcaacgt gtctgtccac gatttgttgt gtttaaagct tcattttgaa 660  
aaatcactgt cccctgtggt gtagtgactg tattgttttg ttcatgtcta tgtgggacac 720  
attgcacac atggcaaacc aactctctgt ggatgtgaga taagtactta taaaaccagc 780  
ttgaaaacat cgtcttatgt attatgtcat cctgcacat aatgcaatta tgtgtatcat 840  
aacatgtcca tttaaaaaaa gagaaaccag caaattcatg tttgtccata gaagaatgta 900  
ctcagaactt tgtgttgtga aacgatgaga acagaccacc ttttaagatac ccacctgcca 960  
cttaaaatga cttagtata attagtagta gtctagacgt tgttcttgggt gtgtgggggt 1020  
caattctaac gtcatgttct tttgaataaa tctctcagtc atatttgaaa aaaaaatata 1080  
tggaataaaa gaaaaatata atctttggcc aaatcaagca ggcacttttt ttcttttctt 1140  
tgacgtttag ctcatatac gtggtgattg gatcacgaga tctgtccgtg tgaaaatata 1200  
gaaacatcct ttagtttaca aaacagttat tctaggcttg aagcctctgg aacagcaaat 1260  
tgaatagatg ggctgcatct gatttgcctt atggatgtaa ttttacaaaa cactcttggg 1320  
tctctgaccc cagggagtta agagtgcaca gaggaggtcc tacacattaa aggataaagc 1380  
ccccagtgta tgctggcagc aaatgtgttg agttcttaaa tottccattt ggktttctgk 1440  
ttcaggtttt taattgcaat ggattttntt tccccgttt tttcttaagg gccncatttt 1500  
ccca 1504

<210> 205  
<211> 525  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (47)  
<223> n equals a,t,g, or c

<400> 205  
agtcttgttc ctaatgcact tgtccacatc gtatgtcatt acaagtnctt ccccttcttt 60  
aaccagaggg catagaattg gggcttagtg tgtcctaaac aagctaaaag attccacctg 120  
tagaatcata aaatgagagt ctcacacagt ttcatgctac tttttgtctc ttcagcaagg 180  
aacggttgct gggattgtca gtgaccaggc atgtctggat agcttcacac atacacataa 240  
tgcccggttc acctcagccc acacatgttc tagaagtagc cacttgccaa gtgtcagtgt 300  
tcagtctaaa cagcaaatgg gttaaccaca tgaacagcac tggcccatgt gagaatgggtg 360  
tgaaggcctc ctttgtacca ttttcattt ctctaactca catgtgtagt ctcagcactg 420  
cagaggacag atttgtttgt gccctctgag actggttggt tgggttggtg gttagttttg 480

ttttatgaat cctaaaattt gtcttggsct gttaaaaaaaa aaatt

525

<210> 206

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2485)

<223> n equals a,t,g, or c

<400> 206

caaagaaaca ttggaaacaa tttctaataga agaacaaaca cctcttctta aaaagattaa 60  
cccaaccgaa tctacttcca aagcagaaga aaatgaaaaa gttgattcaa aagtgaagc 120  
tttcaagaaa ccattgagt tatttaaagg ccccttacta cacatcagcc cagcagaaga 180  
actgtacttt ggaagtacag aatccggaga gaagaaaacc ttaatagtgt tgacaaatgt 240  
aactaaaaat atagtggcat ttaaggtgag aacaacagct ccagaaaaat acagagtcaa 300  
gccaaagcaat agcagctgtg acccggtgac atcagtggat atagtgtgt ctccccatgg 360  
gggtttaaca gtctctgccc aagaccgttt tctgataatg gctgcagaaa tggaacagtc 420  
atctggcaca ggcccagcag aattaactca gttttggaaa gaagtccca gaaacaaagt 480  
gatggaacat aggttaagat gccatactgt tgaaagcagt aaaccaaaca ctcttacgtt 540  
aaaagacaat gctttcaata tgtcagataa aaccagtga gatatatgtc tacaactcag 600  
tcgtttacta gaaagcaata ggaagcttga agaccaagtt cagcgttgta tctggttcca 660  
gcagctgctg ctttccttaa caatgctctt gcttgctttt gtcacctctt tcttctattw 720  
attgtacagt taaagaagtg gtgccgggta ggaaccacgg ttccttcgtc cattagttgg 780  
aaaagtaaca gacctaaac tctaccaagc tactaaaamc attgcacatc tgtgcttcc 840  
aaaaggaaat atgcagcacg tggaggggaa cacatacatg tcttgaaaat aaactgctag 900  
aataaagaaa tgctggagaa attgattata agagactata gctatttagt aaagtaagta 960  
aaggcatatc cattgtgtaa attaatagtt taaatataat ttattttttc cttttgatct 1020  
gaatactttt aaagcttaag ttttatcgtg taaatacatt agctaaactg aaaagtataa 1080  
gtaacatgct ttgttgacgc caaaaaatgt aatctgcttt tttatgacag aattattata 1140  
gctgagctga ctactagct tttctatact atgtatatag aagaacatgt atattgagaa 1200  
agaaaaacata cttatataga ggaatttatg taaccatgac tttgtaattt tgagaattcc 1260  
tcccagtgat ggtcagtatt cttttggaat gtaaaccgat ttaatgcaa accaccttaa 1320  
cctttgtttc tcagtgttcc ttaacagcct gcctttttatt aatctcaggc ttttttatga 1380  
acactctcat ttcagtagaa tttggaaaac taagcgtggg tggaaattct ttgaattctg 1440  
ttagtaaatgc ccaaaagaaa agtctcaagc agtcccccta tccagtcatt tttatggagt 1500  
ttcatgttgt ccactatagc tggacactga accttttgcc taattttatta taaaggcctg 1560  
accctctatt gtcccatctt caccctcatt ccagagcaga ggagtctctg tggaccatga 1620  
attgactgtg ctccctctc atttctaaat gaaagggtatt agatataaat ttttttgaaa 1680  
ggttagttgt ttgagatgct aagcaggata ataaatttag attttaaaat gttccctgta 1740  
aaagtacagcc catgacaagg aaattttacaa aatactagag tatctagaag ggtgaaaaca 1800  
aaaaaaaaawa aaaraaaca cagacgcccc ggtgtcagct ctccgtttta agaagtaaaa 1860  
atgtaactca tgatgatctg tgaaaccttc aaactaggac caattgactt acttgatatt 1920  
ctgcctttga tatggtagta cccaccgggt attcctaaaa tcctaaaaag atacacctg 1980

```
cagtagcaga ggcaatgaca tgagtttggt ttctcattaa tatgaccagt ttgggtctat 2040
gttggttcac atgtacatct actttatatg aaagaaaaaa cagtgtctctg cctgtaaaaat 2100
gttgagtttc gattgagcca tgtttggaga ttttattact attctgaagg gtagtggtgt 2160
tggttttcat cttcaagaag ttgattccaa aactgagtta tgaagaatga tataacagtt 2220
ccttcaaaat tggcctagga aataaaacct taaaaggaca ctggtgtgct actttgtctt 2280
aatttgggct tttctgttct agtttgccac ctccagctgt gaaatggact gcagtcacc 2340
ctaagtactg tgcacagtat ctccctgtgt gtgtgcacag tggcttcccc ttacatggta 2400
gatttttggc cttaatatata tctaattcca aagtagttgt gtatgttttc tgttccttgg 2460
caataaaatg naggaataat ttagnccaag attg 2494
```

<210> 207

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (864)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (868)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<400> 207

```
gggcacgagc tttgacccat tcaaggatgt ctctgcctgg agaactagat cctgactcag 60
tggcagcata ggttctcccc caggggtgggt ctgaacttca gctcagaagc agcctggacc 120
ccatcttacc tccagataag gtgttttagg tactctgttg ccagtgttag tgcaacttag 180
tttaaaaata gaggacttgt tcacagtatg ctctaagtct cacactggag ttttgtgcaa 240
cataaagtag gtgatttttg agcagagcga agtctagaaa tttgccttaa attatttgtg 300
gtactctaga gaacgtggta tgtgtatgtg tgtatgtgtg tttgaatata ggaactagtt 360
cattgaacgt tagattgttc taagaccaga attagattaa aaatgcataa catattaagt 420
attaaaaagt gtttatattg tatatgaatt ttttgcggta agtttagctt ggcattttag 480
gttttaattg atgcttaatc tgttaaaatg atgtactgta ttttaaagta ttctaattgt 540
gcttttttgt accatcttca gtatgaaaaa tgtcagtatt tagttccttt ctcaggcaca 600
attagatttt tattgacatt gttttccccc ttaactcatg taattagtca tagcaaccaa 660
gagtcgaagag agtgattacc agccaattaa gaaaaatgtg accaagcaga ttgcagagta 720
caataaaacc atcgtggatg ctttacatag catcagcgga aactgagttt aagtccactg 780
aaagtctcta aggaagtatc ctcttgctgc taaacttggt acaagttgac taccaaaaaa 840
aaaaaaaaaa agccgaggkg ggcnnngtnc aagggccttg 880
```

<210> 208  
<211> 640  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<400> 208  
tnagnaatg gacttggtc tgtaaaggat ggggaacctc acttcgtggt ggtccactgc 60  
acaggctaca tcaaggcctg gccccagcag gtgtttccct cccagatgat gacccagcct 120  
gaggtcttcc aggagatgct gtccatgctg ggagatcaga gcaacagcta caacaatgaa 180  
gaattccctg atctaactat gtttccccc ttttcagaat agaactattg gggtgaggat 240  
aaggggtggg ggagaaaaaa tcaactgttg tttttaaaaa gcaaactctt ctgtaaacag 300  
aataaaaagt cctctccctt cccttccctc acccctgaca tgtacccctt tcccttctg 360  
gctgttcccc tgctctgttg cctctctaag gtaacattta tagaagaaat ggaatgaatc 420  
tccaaggctt ttaggactgt ctgaaaattt gaggtctggg gaagttaaaa cacctttcct 480  
tatgtctcct gacctgaaat tgtatagtgt tgatttgtgc tgagatcaag aggcagggtta 540  
gawgaacctg acatccactg yttgccttgg atagtatggc ttgwtttttg aaagaaattc 600  
tgaagagwgt ggaaggagag gagaaatgtc ctcatatttg 640

<210> 209  
<211> 303  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (85)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<400> 209  
ttgagcactt tctatctact agtcactgtg atacagtata agtaaagtgg gttgtctcat 60  
ttaatatcca gaataaccac atgangtatg anctgccatt atctttcccc ttgtacaaa 120  
tgaggaaagt gaggtcaca gaagttaatt ggcccagggt cccacaacta gtcagtgcag 180  
agggtggggra acataaccag atttgttcgg catgkaactt gtgccaaatt tcctccaaag 240  
ttcttcaaag ggcaaggcat gtttatatta tccaattta ggcataccaa caactttaat 300  
act 303

<210> 210  
<211> 1168  
<212> DNA  
<213> Homo sapiens

<400> 210  
ggcacgagcg gcasgasctt gtctgaacat aatgatttca aaatttgagc ttaaaaatga 60  
cactctgaaa tccagtcagt gtgcctcact agacttttcg atttcaagat tttctgcaga 120  
aaatgttttg aaaactttga atacttaaaa atggcagggt tagtattgca ctttgctagt 180  
tgctcagata ccctttttta tttgtataga tattctgagt tccttttttt ttctacatgt 240  
tgtacgttgt cgaaagctaa aaggaaactt atccttggat cacggaaggc agaggcattt 300  
ggtgagatgg aaacaaggat gtgtaaaaat gagacgacca cctctcggat taaaaaaaaa 360  
aagtgccaga gttctagggg tctaagtgat gtccaggaag gaggaggaat aatatttatg 420  
gagcatatat tatggaacac agcaatcagg atgagtgaag aattgatttg cagctgacct 480  
gcaaagtggaa tcatcaggaa catccctttc tcatggagtc ccttaattta caagttaact 540  
gcaaacatag gagatgatag ttccaagaag gaacatttta tcgtotttgt ttttaattctc 600  
aagaatggta cctaccatca gtgaatgacc tgttgcagtg ctttcattga agtggtcttc 660  
gttccctcag caatatgatt gtgatgactg aaaaagggaa actgtgccac tatttgtacc 720  
atcattttca ccaaaatcta aaaatgcttt ttatgacgta tggagacatt cttcatgttt 780  
gtttcagtgg aactccttg cagatgtaaa aaactgagaa aactcacttt tggaaagtga 840  
cctaaagagt gtcattgaag tgaattttta gtaggcacga tgattgtwtt catggttgct 900  
gttggatcat atctcaggag ctggaatgac agacattatt gaacaaagaa atcaggatag 960  
tggaacttaa agggcttcat ctgagtgcyt tcataagtat gaagtgcata tatttataat 1020  
tttcastaat cacagggtaa atataaaatt gattcattaa aaatgtttca taagaattca 1080  
aaggacatag aattttgtga aatgtagtat ttttacttaa gtgcctttac tctgcttcta 1140  
ccccacagcc aattttttat aaaccagt 1168

<210> 211  
<211> 3133  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3069)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3085)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3114)  
<223> n equals a,t,g, or c

<400> 211  
cagacctcgg acgagagcgc cccgggggagc tcggagcgcg tgcacgcgtg gcakacggag 60  
aaggccagtg cccagcttga aggttctgtc accttttgca gtggtccaaa tgagaaaaaa 120

```

gtggaaaatg ggaggcatga aatacatctt ttcgttgttg ttctttcttt tgctagaagg 180
aggcaaaaaca gagcaagtaa aacattcaga gacatatatgc atgtttcaag acaagaagta 240
cagagtgggt gagagatggc atccttacct ggaaccttat gggttggttt actgcgtgaa 300
ctgcatctgc tcagagaatg ggaatgtgct ttgcagccga gtcagatgtc caaatgttca 360
ttgcctttct cctgtgcata ttctcatct gtgctgccct cgctgccag aagactcctt 420
acccccagtg aacaataagg tgaccagcaa gtcttgcgag tacaatggga caacttacca 480
acatggagag ctgttcgtag ctgaagggt ctttcagaat cggcaaccca atcaatgcac 540
ccagtgcagc tgttcggagg gaaacgtgta ttgtgggtctc aagacttgcc ccaaattaac 600
ctgtgccttc ccagtctctg ttccagattc ctgctgccgg gtatgcagag gagatggaga 660
actgtcatgg gaacattctg atgggtgatat cttccggcaa cctgccaaca gagaagcaag 720
acattcttac caccgctctc actatgatcc tccaccaagc cgacaggctg gaggtctgtc 780
ccgctttcct ggggccagaa gtcaccgggg agctcttatg gattcccagc aagcatcagg 840
aaccattgtg caaattgtca tcaataacaa acacaagcat ggacaagtgt gtgtttccaa 900
tggaagacc tattctcatg gcgagtcctg gcacccaaac ctccgggcat ttggcattgt 960
ggagtgtgtg ctatgtactt gtaatgtcac caagcaagag tgtaagaaaa tccactgccc 1020
caatcgatac ccctgcaagt atcctcaaaa aatagacgga aaatgctgca aggtgtgtcc 1080
agaagaactt ccaggccaaa gctttgacaa taaaggctac ttctgcgggg aagaaacgat 1140
gcctgtgtat gagtctgtat tcatggagga tggggagaca accagaaaaa tagcactgga 1200
gactgagaga ccacctcagg tagagggtcca cgtttgact attcgaaagg gcattctcca 1260
gcacttccat attgagaaga tctccaagag gatgtttgag gagcttctc acttcaagct 1320
ggtgaccaga acaacctga gccagtggaa gatcttcacc gaaggagaag ctcagatcag 1380
ccagatgtgt tcaagtcgtg tatgcagaac agagcttgaa gatttagtca aggttttgta 1440
cctggagaga tctgaaaagg gccactgtta ggcaagacag acagtattgg atagggtaaa 1500
gcaagaaaac tcaagctgca gctggactgc aggettattt tgcttaagtc aacagtgcc 1560
taaaactcca aactcaaag cagtcaatta ttcacgccat gcacagcata atttgcctc 1620
ttgtgtggag tgggtgtgtca gcccttgaac atctcctcca aagagactag aagagtctta 1680
aatttatatg gggaggagga gggatagaac atcacaacac tgctctagtt tcttgagaa 1740
tcacatttct ttacagggtta aagacaaaca agaccccgagg gtttttatct agaaagtta 1800
tcaagtgaag gaaagagaag ggaattgctt agtaggagtt ctgcagtata gaacaattac 1860
ttgtatgaaa ttataccttt gaattttaga atgtcatgtg ttcttttaaa aaaattagct 1920
ccccatctc cctcctcact ccctccctcc ctcttctct ctctctctct ctctccctct 1980
ctcacagaca cacacacaca cacacacaca cgcacacgca cgtccacact cacattaac 2040
taaagcttta ttgaagcaa agctagccaa aattctacgt tacttttccc ttgactggat 2100
cccaagtgc ttggaagttt ttgtgcccag gagagtaaat aactgtgaac aagaggctct 2160
gcccttaggt ctttgtggct gtttaagtca ccaacaatag agtcagggt aagaataaaa 2220
acactttcat agcctcatc attcacttag aagtggtaat aatttttccc taatgatacc 2280
acttttcttt tccccctgta cctatgggac ttccagaaag aagttaaatt gagtaaaatc 2340
atcagaaact gaatccatgt aagaaaaaat aattgttgaa gaaagaagtt gatagaattc 2400
aaaaaggcca tctttttgct ttcacatcaa taaaatttac caagtaatag atcagtactc 2460
actaatattt ttgagaccat agttgtctgg tcagaaaaat tatattaaat tagtaaatc 2520
tagaagctct ttaaaaggga agttttcctt cttctccaat tataggagtt gatttttact 2580
ttgcaaagtg gctcggtcct catgagcatc tgcatgttga ctcttcagtt aagaaaattg 2640
ttgttcattt agggaggtgg atattctgat gaagatcttt atcctaaacc ttcctactat 2700
ccttgtctta ttcatcaagc agatatttta gtcaagaatt ccagagaagg ctgctcctaa 2760
aatgtctact tgcagcccaa taccagagca taaactatcc attctggggt ctggccttag 2820
aaatcatctt tgtgggaaga cctaattctt cacagcaagg atctcaggca tgccttctag 2880
atgtgtccc tctgaggggc aggaatgaac tgtagaaatg ttttaaggac ccagaaaccc 2940
catatgtctc attcatgac tataggtgag agaattcttt cctaagaggg tttgatacca 3000
ataggggaaa atgtaaaatg ttcagtcttt atggacaacc tgggcataaa ggagtccaat 3060
tccttatgna aagagacaca agggncctta tgggccaggg ttttcttggg gacnaaactc 3120
ttcaccagcc acc 3133

```

<210> 212  
<211> 680  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (613)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (660)  
<223> n equals a,t,g, or c

<400> 212  
accacgcgt cccggtaaata gctttacacc aggatggatt ctgaaatata aattctaaat 60  
tatatttgtt ataactatat tttatgttgt atgttatcag gagccatcag agaatgacct 120  
ttttgtgttt ggaacacttg gttccatgaa aagtatgctt tgtgttttaa ctgttaaaat 180  
aatttaaaaa ttaattatit tacataatta aagaagttaa aaactattaa cattaaataa 240  
tttcacaatt tcaacatgtc aaacctatga agggagatag gaaacaatga gaaacttact 300  
tttgctcctt tatacagrat tattaactat attttactaa ctaaaaaact ctagtattct 360  
ttacctaaag tcaattggct ggtaagaggg agagatgcaa aattctccag ctctgaactt 420  
ggagctactt cacactctac tcttaatgga aacttgaact aatgatagat agtatttity 480  
tcctctatit aaaatttttg tcttgattag gagatttttc agtttctcca tataaattaa 540  
ttttcttaca atcggattct atggcgtggg gcataatttt tggctttatt ttaaaaaatt 600  
tttttttaga gnggggttc ttggctccgg tcaccagggg cggggagtgg cgtggggccn 660  
ggatccaggg gcttcaccgg 680

<210> 213  
<211> 563  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<400> 213  
aggattacag gcgttacacg cacaccggc tgtaaaaatg tacttattct ccagcctctt 60  
ttgtataaac catagtaagg gatgggagta atgatgttat ctgtgaaaat agccaccatt 120  
taccgtaag acaaaacttg ttaaagcctc ctgagtctaa cctagattac atcaggccct 180  
ttttcacaca caaaaaatc ctttatggga tttaatggaa tctgttgttt cccctaagt 240  
tgaaaaacaa ctctaaaaca ctttaaagta cttcttggc ctgggttaca tggttccag 300  
cctaggtttc agacttttgc ttaaggccmg taatytyaga aaaaaatttc caaatacatg 360  
gacagagcgg aaaacataaa gaagtacttg gaccaagaaa aaagaagatg gaaaatatca 420  
caagcaaat aaaaatagaan aaatgcaac aggtttcagt tatgaatcac tttttcgcga 480  
attaccttaa tgaaacagtt accgaagttt tgggatagaa aaatccttta ttttaaaact 540  
tactcctcca gcttgttata act 563



<210> 214  
<211> 2636  
<212> DNA  
<213> Homo sapiens

<400> 214  
ccagcaagaa gctaactcga ccactggtga tgaaaactgg cagacctgca ggaaaaggga 60  
gcattacgat ttcagctgaa gaaataaaag ataatagagt ggtcttggtt gaaatggaag 120  
ccagaaaact ggataataag gatctatttg gaaagtcaga cccataacct gaattccaca 180  
agcagacatc tgatggaaac tggctaattg ttcatcggac agagggtggt aaaaacaact 240  
tgaatccygt ttggasgcct ttcamgatct ctcttaactc actgtgttmc ggagatatgg 300  
acaaaaccat taagggtggag tggttatgatt atgacaatga tgggtcacat gatctcattg 360  
gaacatttca gaccacctg acaaaactga aagaagcctc cagaagctca cctgttgaat 420  
tkgaatgcat aaatgagaaa aaaaggcaaa agaaaaaaag ctacaagaat tcagggtgta 480  
tcagtgtgaa acagtgtgag attacagtag aatgcacatt ccttgactat ataatgggag 540  
gatgtcagct gaattttact gtgggagtgg acttcaactg ctccaatggt gacccaagggt 600  
ctccagactc ccttcattac atcagcccca atggcggttaa tgagtatttg actgctctct 660  
ggctctgtgg actggtcatt caagattatg atgctgataa gatgtttcca gcttttggtt 720  
ttggcgctca gatacctcct cagtggcagg taccacatga atttccaatg aacttcaacc 780  
catccaatcc ctactgcaat ggaatccaag gcattgtaga ggcgtatcgg tcttgtcttc 840  
ctcagataaa actctatgga ccaactaatt tttctccaat cataaatcac gtggccagggt 900  
ttgctgctgc agccacgcaa cagcagacag cttctcaata tttwgtgctt ttgattatta 960  
ctgatgggtg gatcacagac cttgatgaaa ccagacaagc tatagttaat gcctccagct 1020  
gcctatgtcc atcataattg ttggagttgg aggtgctgac ttcagcgcca tggagtttct 1080  
ggatggtgat ggtggaagtc tccgctcccc attgggagaa gtggccatca gagatattgt 1140  
ccagtttggt cctttcagac agttccagaa tgctccaaaa gaagcacttg ctcagtgtgt 1200  
cttggcagag attccccagc aggtgggtggg ctacttcaat acatacaaac tccttcctcc 1260  
caagaaccca gccacgaaac aacagaagca gtgaccactt caacagaatt cttttgtgtt 1320  
ctgtggagca atgccatctc tcaccccaaa tctgttatct gtcattctac gtacttttta 1380  
ccctcagcat ttatgatgta aatctctttc tctatggatt atatctgttt aaagcattct 1440  
ttctaggtta ttttgggggg acagtgccaa gtccatcttt gccagtgcaa ttcagtgtat 1500  
gatagcaatt tacattaatt gcagtaaagc tctttggatt agaaattagt gtggggaaag 1560  
cttattctgt tggtgttttt gtttactttc atatgatgaa aatgctgtgt ttaagtgttt 1620  
gtcaatagga agaattgaaa actgtttgga tgatgtggtt tgcagggtgc tgtgcctgat 1680  
tcacagtgtg tggtgtataa gccartgtcc atacctgatt atgagagctt cttaaattat 1740  
atgatatcaa atttgttctt gtaactctgt atacagtgtt tttctgcaag gtaaaaaataa 1800  
cctgtctatg catctgattt ttgctacagt ttagacactg tggttttaca aacagcatgc 1860  
actcaacttg ggactttatg aaaagtactg aatgagcagg aaaaggcaca tactcagttt 1920  
tttaaatgta caatcaacaa gtaaaaaataa cctcatgtaa gtaagccatt tttatttgcc 1980  
tttctagata ttttatttta ttgtggaaaa ctgtaaacat ggtcagattt ggcttttttt 2040  
ttcattaact gagcaagact ttcaggatat tgtagatgca cagatggtag gttgtcctga 2100  
attctacatt attagattac tttaattgag atttgttaaa acggttagga ctgttttgct 2160  
caggaaagat aagaggacca aacatataag gtgaaattca gaattccgtt tccttctaac 2220  
taatgaaaaa ctgcttacta aaaaaaatt ttatactttc cttgctaagg tcccatatat 2280  
tgatttgtac agatccactt agtcattttc tccttttttt aagaaccatt ttcactctgat 2340  
ttttaaactc acgataccag ttatctgtta atcaaaattg catttttaca tttaataatg 2400  
tgatatttcc tatgtctaca gcatacctta ttaggtataa aacctactgc aacttagaaa 2460  
aaggaaagaa aaaagaaaaa ttttccaact gctgcattaa gatagggtgg attttatgtg 2520  
cttttttttt taagarttga atttcttttc ctgactttta ctttttacag cgtattactt 2580  
agtgaacatt acttttcaga ataratccta atattttatt agggcctatg tgctaa 2636

<210> 215  
<211> 1822  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1816)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1821)  
<223> n equals a,t,g, or c

<400> 215  
cttagtgaac attacatttt cagaatagat cctaataattt tattgagggc ctatgtgcta 60  
aaaactatgc atatctatat attggccaat tatctttaat aatttacctt ttgaaattgc 120  
atgtttatca tatatcctta agtggacaca tacagtgcc a tggtgatgtg cctctcagtt 180  
ttattgaaaa gctgccccac agcccatgtc tcttggtctc tgcaatgcct caagggagtg 240  
agctctcaac cacagatagc tgtggcttct cagaagcagc tcattgccaa ggccaggctg 300  
agaggggacc tgcttgctgt ggtggttgcc tagccagat gagcatttac ctaccacctt 360  
cccacttggc tagctgtcct ttggatatgt gctgttaact ggggaaggca tctaactagt 420  
agcctgtctac tccatagtat ggctcaatag atgacacatc attttgacat tatcaatagg 480  
agaaaagaaa actaaccctt cttctgattg tttggagcca tagttgtctc agatgttcta 540  
attctctttg tatgcttgga aacagcatag atatgttgct gtggttttca gaattttctc 600  
ttttaatcac aagaagcctt ttaaaaaatg acttacacat attctcaatg tacagtaaaa 660  
cagacagaag tgagcttata tgtttgatgc tgtggcaggg tcccagtcac tgggcatatc 720  
ctccttctcc ttaaccagct cctcagcagc ccttgagtca cctgcacaag gtgcttggga 780  
actgctggtt atgagcatte ctggttttct tcagccaaat aacaggtaat cactgtcaat 840  
tggtttggtt cttcattatt ttatattctg attttatcag aattattcta ttttaaaatt 900  
gttttaaaat ttaaaaacat ttaattcatg atcatgttca tcagtagatg ctattattca 960  
taagaactgt gattccagca aactagggtta attggtgcct ttttacagtt ttgaataaaa 1020  
gcatttacaa tttctaaatt atcagttttc acagtttcag cactcaacct catcatacgc 1080  
tgatttaata ttgttttaca ttaaaatagt ccttttccct gttgtgccac cattcattta 1140  
agtgtgtgtt gtwtctaaaa tgcattttaa ggaaaaatta cccatattga ctttcacacy 1200  
tcatataatc agatctatta caaatatata tgggagtgac ggtgcccagg atagatgtaa 1260  
tatttcttac agatgctggc acagaggaaa taatatacca gctaactctag tcacctaacc 1320  
ttgtggttag aattgcaatt ttaagaccag aaaaatttga agtctgatca gagatttaca 1380  
actgttcatt atagtgtgac cttaggcaat ctttccaaag taaattcagg gccccattgc 1440  
tacttatgcc atatttggac atactttttt tttcttcaat tttgtaaact tcctggaaaag 1500  
ctgtcttcac taagtatccc ctagtctcta tatatgtggt tagtagtcat ggaaatgaca 1560  
cataaagtac gccagaagtt tgatggaacg tgtagaaac tgttttgtgc ttttatggat 1620  
gtcatacttg acaatacatg tgtaagtac taatatatga attgatgcta aatatatctt 1680  
acatttgaat tccttttgga taaagtattt tcttgatgtg acasagtagt gtgttttcat 1740  
ttttattctt tacatgtgac caaaacaata gaaaagttaa aaataaaaata tagtgtttta 1800  
ggtggcaaaa aaaacnactg na 1822

<210> 216  
<211> 3127

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

```
accacgcgt ccgccacgc gtccggctcc gggggtgtgt ggacgccgct ttgttgccctg 60
aggtgggtgg cgggtggaagt taaggagtc aggggctatc gctcctcgag actcgcagtc 120
gcggccactg cagtcacttc gccagttagc ccttagggta ggagtcgcgc cggcagcagc 180
catgagcggc ggcgtgtacg ggggagatga agttggagcc cttgtttttg acattggatc 240
ctatactgtg agagctgggt atgctggtga ggactgcccc aaggtggatt ttcctacagc 300
tattggtatg gtggtagaaa gagatgacgg aagcacatta atggaaatag atggcgataa 360
aggcaaacaa ggcggtccca cctactacat agatactaata gctctgcgtg ttcgcaggga 420
gaatatggag gccatttcac ctctaaaaaa tgggatgggt gaagactggg atagtttcca 480
agctattttg gatcatacct acaaaatgca tgtcaaatca gaagccagtc tccatcctgt 540
tctcatgtca gaggcaccgt ggaatactag agcaaagaga gagaaactga cagagttaat 600
gtttgaacac tacaacatcc ctgccttctt cctttgcaaa actgcagttt tgacagcatt 660
tgctaattgt cgttctactg ggtgtatttt ggacagtggg gccactcata ccactgcaat 720
tccagtccac gatggctatg tcttcaaca aggcattgtg aaatccccctc ttgctggaga 780
ctttattact atgcagtgca gagaactctt ccaagaaatg aatattgaat tggttcctcc 840
atatatgatt gcatcaaaag aagctgttcg tgaaggatct ccagcaaact ggaaaagaaa 900
agagaagttg cctcaggtta cgaggctctg gcacaattat atgtgtaatt gtgttatcca 960
ggattttcaa gcttcggtac ttcaagtgtc agattcaact tatgatgaac aagtggctgc 1020
acagatgcc aactgttcatt atgaattccc caatggctac aattgtgatt ttggtgcaga 1080
gcggctaaag attccagaag gattatttga ccttccaat gtaaaggggt tatcaggaaa 1140
cacaatgtta ggagtcagtc atgttgtcac cacaagtgtt gggatgtgtg atattgayat 1200
cagaccaggt ctctatggca gtgtaatagt ggcaggagga aacacactaa tacagagttt 1260
tactgacagg ttgaatagag agctgtctca gaaaactcct ccaagtatgc ggttgaaatt 1320
gattgcaaat aatacaacag tggaaacsag gtttagctca tggattggcg gctccattct 1380
agcctctttg ggtacctttc aacagatgtg gatttccaag caagaatatg aagaaggagg 1440
gaagcagtg gttagaaaga aatgcccttg agaaagagtt cccaagcttc taccttccct 1500
ttgtcacctt acgtttcata gcttttagtat actcaggaaa agaattgacca tctttttagt 1560
aatgtttata catttttgca tatttcaatt tccacttaaa ttttttaaag ctttaactgg 1620
ctctataaat taagtttggt ctttccttga aatgcactta ttcttattac aagcatttta 1680
taattttgta taaatgtcta tttctctaa atattttgct ttcagtaaaa tgctttccaa 1740
ctctgttttag tgtattaatt accagtggat tggtagaact gctttttatt gactagtaaa 1800
agttactgcc tatgcttttt acctaggct tacagaatta aataaaaaatt agccattcca 1860
gaaatatatt ttggactggt gtgcactgtg attactactt taaggactaa atgtatttct 1920
cattwttttg aatcaaagtc ctccgtttat taacagcaat acccacatcc tcttcatagc 1980
ctattaacaa cagaggtaaa actattatct aaattcaaaa actacggtat tgcttttgct 2040
gtggcagtta ccatcacctt cacactctaa ggtagcaggt gacatttaaa gcctgcttaa 2100
atgtcagaat ttataaagtg ggaatctcat ctgaacttta tacttgattt ttagaagcaa 2160
attagcttct accaaattag ctaattagca tgccatattc acacttagaa caactgatta 2220
gtaaagtac ttgactaaaa acagaatttc tttataaacc acttaacata tttactcctg 2280
tacacagact attcaagaaa aacaaaatgg taaatttaat agttcagaca tottagacaa 2340
gacttgactt ttgggcttca gcaagatgtg gaaacttttt taaaagaatt tttgctttct 2400
ttctctctaa attttccttc cgtgctttga tgcgggctcg tttctcacgt tccagtctga 2460
gaaaatggtc cacataaggc aaggcaaaga atcgtttcct attgtatctt ttatttaggt 2520
gccaagggtat aaccactgc ttgaaactgt gccagatgat tcttccaaag atgtctcttc 2580
tccaagcacc aggtctagct ctttcttgac cagtctgaag aagccttagg gcatcttctc 2640
tttcttggtt aactttatct aatgcatcca tggaatctac taccttatct aacgctctg 2700
gacttggtat tggcaatctc tgccgcttgg cctcctgctc tagggttaga agcatgttct 2760
tttctttcag taagacatac caaagtttgt gtaaactctc attacttttg ttccttaggt 2820
```

gctgacaggt ccatgctgct ccagatttta cttttttcttg cccccagttt tttgggtcat 2880  
caaaaaattc ttctagtcct ttcccttgaca atgtgggtatg aagtaatcta tattgggtgaa 2940  
aggatgtcac atttgggtga ctcttaggca acaaaactaag aaaaaaccct gtgcaggcag 3000  
ggacctgagg agttattaac gatcggggaag atttcagggc ggatgaaact ctccatacaa 3060  
gaagggccaa accggccgca gccatgtttt cgcataactc cccttctgtc gtcttctcgc 3120  
agccgta 3127

<210> 217

<211> 1529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 217

cactgcgctg tgccccgcga tccacgaggt gccctgctg gagccccctg tgtgcangaa 60  
gatcgcccag gagcggtcga cagtcctcct gtctctggag gactgcatca tcactgcctg 120  
ccaggagggc ctcatctgca cctgggmccg gccgggcaag gcgttcacag acgaggagac 180  
cgaggcccag acagggggaag gaagttggcc caggtcaccc agcaagtcag tggtagaggg 240  
catctcctcc caaccaggca actccccgag tggcacagtg gtgtgaagcc atggatatcg 300  
ggccccccca acccatgcc cccagcctcc tagccataac cctccctgct gacctcacag 360  
atcaacgtat taacaagact aaccatgatg gatggactgc tccagtcccc ccacctgcac 420  
aaaatttggg ggccccccag actggcccg acacgggnga tgtaatagcc cttgtggcct 480  
cagccttgct ccccaccac tgccaagtac aatgacctct tcctctgaaa catcagtgtt 540  
accctcatcc ctgtccccag catgtgactg gtcactcctg gggagasact ccccgccct 600  
gccacaagag cccaggtct gcagtgtgcc cctcagttga gtgggcaggg ccgggggtgg 660  
tccagccctc gcccgcccc caccacagct gcccttgcta ttgtctgtgc ttttgaagag 720  
tgttaaatta tggaagcccc tcaggttcct cctgtcccg cagacctctt atttatacta 780  
aagttccctg ttttctcagc gggctctgtc ccttcggagg agatgatgta gaggacctgt 840  
gtgtgtactc tgtggttcta ggcagtccgc tttccccaga ggaggagtgc aggcctgctc 900  
ccagcccagc gcctcccacc ccttttcata gcaggaaaag ccggagccca gggagggaac 960  
ggacctgcga gtcacacaac tggtgaccca caccagcggc tggagcagga ccctcttggg 1020  
gagaagagca tcctgcccgc agccagggcc cctcatcaaa gtccctcggg ttttttaaat 1080  
tatcagaact gcccaggacc acgtttccca ggccctgccc agctgggact cctcggctct 1140  
tgccctcctag tttctcaggc ctggccctct caaggcccag gcaccccagg ccggttggag 1200  
gccccgactt cactcttgga gaaccgtcca ccctggaaaag aagagctcag attcctcttg 1260  
gctctcggag ccgcaggag tgtgtcttcc cgcgccaccc tcacaccccc gaaatgtttc 1320  
tgtttctaata ccagccttg gcaggaatgt ggctccccc ccaggggcca aggagctatt 1380  
ttgggggtctc gtttgcccag ggagggttg gctccaccac tttcctcccc cagccttttg 1440  
gcagcaggtc acccctgttc aggcctctgag ggtgccccct cctggctcctg tcctcaccac 1500  
cccttcccca cctcctggga aaaaaaaaaa 1529

<210> 218

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 218

```
acataggtcc tggtagagcca aactttttctc ttattgtttac tttagatcat ggagtgcac 60
ggatcctttc tataccaacg wcmggagcat cttgactctc tccacaatgg actcatctac 120
ttgttaaagg ggcagtagta ctttgtggga gccagttcac ctcccttctc aaaattcagt 180
gtgatcaccg tgtaaatggc cactactagct ctgaaattaa tttccaaaat cttttagtagta 240
gttcataccc actcagagtt ataattggcaa acaaacagaa agcattagta caagcccctc 300
ccaacaccct taatttgaat ctgaacatgt taaaatttga gaataaagag acatttttca 360
tctctttgtc tggtttgtcc cttgtgttta tgggactcct aatggcattt cagtctgttg 420
ctgaggccat tatattttta tataaatgta gaaaaaagag agaaatctta gtaaagagta 480
tttttttagta tatgtttgat tattgactct tctattttaa tctgmttctg taaattatgc 540
tgaaagtttg ccttgagaac tctatttttt tatttagagtt atattttaaag cttttcatgg 600
gaaaagttta tgtgaatact gaggaatttt ggtccctcag tgacctgtgt tgktaattca 660
ttaatgcatt ctgagttcac agagcaaatt aggagaatca tttccaacca ttatttactg 720
cagtatgggg agtaaattta taccaattcc tctaactgta ctgtaacaca gcctgtaaag 780
ttagccatat aaatgcaagg gtatatcata tatacaaatc aggaatcagg tccgttcacc 840
gaacttcaaa ttgatgttta ctaatttttt tgtgacagag tataaaagacc ctatagtggg 900
taaattagrt actattagca tattattaat ttaatgtctt tatcattgga tcttttgcac 960
gctttaatct ggtaaacata tttaaatttg ctttttttct ctttacctga aggctctgtg 1020
tatagtatct catgacatcg ttgtacagtt taactatatc aataaaaaagt ttggacagta 1080
aaaaaaaaa aaaaaaactc                                     1100
```

<210> 219

<211> 1792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 219

```
ccgtggggag cgtggcgta gggggcccg cgggcgcagt ccccttcag catcccgaac 60
agcagcagcg tcccgtagcg ctgcaggac tcggtgcaca gcagccctga ggacggcggc 120
ggcggcgsgg accgcmgtgg cgggaccggc gggccgcgcc tggtagatcg ctccctacca 180
gctcacctct cgccgcacat gtttgaggga tttaagtgcc ctgtatgctc aaaatttgta 240
tcctcagatg aaatggattt gcatcttgta atgtgtttta caaagccacg aataacctat 300
aatgaggatg tactgagtaa agatgctggg gaatgtgcaa tatgccttga agaattgcag 360
caggagata ctatagcacg actgccttgt ctatgcata atcataaagg ctgcatagat 420
gaatggtttg aagtaaatag atcttgccct gagcaccctt cagattaagc gtcannttcc 480
tgttttatag gttttcttgt cttgacaaga tgcttgaaaa accaagagga yatgaaaatc 540
tgtctctgga gaaacaaaga cgcaggcata ctcagccaga aatctgagtt ttgtgagact 600
```

```

tggtaataca gagatggaca atcgtactgg ggtaaaaaaaa ccctgctgaa gagaggacag 660
tgaccacaga actcagtgta ccaaacatgc atacaaagga cacacaggga ttttgaaaat 720
gctgcacatc ccttaatagt catctacata ggtaatactg ataaacattt tgtattcaga 780
cgccaaagtt aactgattta aaagttgatt tactttttat taagttctcc agagctgcac 840
aactagttat gttttgattt gttttgtttt ttaatttggt gtctctttgt tttccccaac 900
ataatgttca taatgtttct gcattcatct gttcttaaat tgaaaaacat ataatttact 960
tcttataaat tgaagtctta aatgtgaaac caagaaatgt aatcaagcag taaaaacatc 1020
tgaatgtaga ccatgatctc aagttcttcc atttctctcc ccacgagtgg aaaatagact 1080
tctacatagg aaagctaaaa tatgttaata tttttaaatt aaaggtttaa tatcagaatg 1140
cagtcctaaag agcaaatcat attacataat tacattttta ttaaataatag aatattctac 1200
tgaattgcaa tttattaaat attcttatcc tcttaaaaaa aactgctcaa cagttaatca 1260
gcagtgaatc atcttgacgc tatgcaattt aaaaaaaata cagattacca atttcaagtg 1320
ctgccagcta aaataactgt tttaacgggt atcttttgtt tgktcttttc acttaattat 1380
tttatttgtc tttgcacctc caggcagttc tctcacattt gggtaaaaatg tttagcaggc 1440
tgtaaaactta agaaaagggt aaaataaaaat tttctggaga ggaacttgga atttgaggga 1500
gattttatat acctttaaaa actgtaattt aattgggatg ccagggttat agcaatttgc 1560
aactttaatt ttccagataa tctggagggt agcatttgat aaatgatttt ttaaagtaga 1620
tatgaagatt ttgttaattt ataattttat catgtgttat tactgtaatt gaaaatgtta 1680
tagacacttt taaattcagt ttgtgtagaa agaaatgtgt taaacaaaat tatgttaata 1740
aatattcccm cataataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1792

```

&lt;210&gt; 220

&lt;211&gt; 1310

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

```

tctgcctggg atgtaaaccg gaccagccgc tgcgggcaga aggaaggctc ttggctcctt 60
cgggaaaccc agccccgtca ccgggctccg agcggctcgc aggcgacgac acgkcctcag 120
ccccggcagc gccyagcgkc ggctgcggaa agcggaggga gtccgacgcg ggcgcgggcg 180
gggagcgtgc gtccgttcgc acaggcagcg ggaggagggg cggcgcgaaac catggccggg 240
gacagcagcg agaccctgca gaaccaccag cagcccaacg gcggcgagcc cttecttata 300
ggcgctcagc gggaacagct agcggcaagt ctccgtgtg tgctaagatc gtgcagctcc 360
tggggcagaa tgaggtggac tatcgccaga agcagggtgt catcctgagc caggatagct 420
tctaccgtgt ccttacctcg gagcagaagg ccaaagccct gaaggscag ttcaactttg 480
accaccggga tgcccttgac aatgarstca ttctcaaaac actcaaagaa atcactgaag 540
ggaaaacagt ccagatcccc gtgtatgact ttgtctccca tccccggaag gaggagacag 600
ttactgtcta tcccgagac gtggtgctct ttgaagggat cctggccttc tactcccagg 660
aggtacgaga cctgttccag atgaagcttt ttgtggatac agatgcggac acccggtctt 720
cacgcagagt attaagggac atcagcgaga gaggcaggga tcttgagcag attttatctc 780
agtacattac gttcgtcaag cctgcctttg aggaattctg cttgccaaac aagaagtatg 840
ctgatgtgat catccctaga ggtgcagata atctggtggc catcaacctc atcgtgcagc 900
acatccagga catcctgaat ggagggccct ccaaaccgca gaccaatggc tgtctcaacg 960
gctacacccc ttcacgcaag aggcaggcat cggagtccag cagcaggccg cattgacccg 1020
tctccatcgg accccagccc ctatctccaa gagacagagg aggggtcagg aggcactgct 1080
catctgtaca tactgtttcc tatgacatta ctgtatttaa gaaaacacca tggagatgaa 1140
atgcctttga tttttttttt ctttttgtac tttggaacga caaaatgaaa cagaacttga 1200
ccctgagctt aaataacaaa actgtgccaa ctactactgg tgatgcctaa ttatgaatcc 1260
aacgtgtaac cagttataaa tacatatata tataaaaaag gaaaaaaaaa 1310

```

&lt;210&gt; 221

<211> 1369  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1347)  
<223> n equals a,t,g, or c

<400> 221  
ggcacgagga atgtttgggt tgggaaatga gtttaaacc cccaatgtac aggaaaggga 60  
agcacagttt ggaacaacag cagagatata tgcctatcga gaagaacagg attttggaat 120  
tgagatagtg aargtgaaag caattggaag acaaagggtc aaagtccttg agctaagaac 180  
acagtcagat ggaatccagc aagctaaagt gcaaattcct cccgaatgtg tgttgccctc 240  
aaccatgtct gcagttcaat tagaatccct caataagtgc cagatatctt cttcaaaacc 300  
tgtctcaaga gaagaccaat gtccatataa atgggtggcag aaataccaga agagaaagt 360  
tcattgtgca aatctaactt catggcctcg ctggctgtat tccttatatg atgctgagac 420  
cttaatggac agaatacaaga aacagctacg tgaatgggag gaaaatctaa aagatgattc 480  
tcttccttca aatccaatag attttcttta cagagtagct gcttgctctc ctattgatga 540  
tgtattgaga attcagctcc ttaaaattgg cagtgtctatc cagcgacttc gctgtgaatt 600  
agacattatg aataaatgta cttccctttg ctgtaaacaa tgtcaagaaa cagaaataac 660  
aaccaaaaat gaaatattca gtttatcctt atgtgggccg atggcagctt atgtgaatcc 720  
tcatggatat gtgcatgaga cacttactgt gtataaggct tgcaacttga atctgatagg 780  
ccggccttct acagaacaca gctggtttcc tgggtatgcc tggactgttg ccagtgtaa 840  
gatctgtgca agccatattg gatggaagtt tacggccacc aaaaaagaca tgtcacctca 900  
aaaatttttg ggcttaacgc gatctgctct gttgcccacg atcccagaca ctgaagatga 960  
aataagtcca gacaaagtaa tactttgctt gtaaacagat gtgatagaga taaagttatc 1020  
taacaaattg gttatattct aagatctgct ttggaaatta ttgcctctga tacataccta 1080  
agtaaacata acattaatac ctaagtaaac ataacattac ttggaggggt gcagtttcta 1140  
agtgaactg tatttgaaac ttttaagtat actttaggaa acaagcatga acggcagctc 1200  
agaataccag aaacatctac ttgggtagct tggtgccatt atcctgtgga atctgatatg 1260  
tctggtagca tgtcattgat gggacatgaa gacatctttg gaaatgatga gattatttcc 1320  
tgtgttaaaa aaaaaaaaaa aaaaatngct gcggccgaca agggaattc 1369

<210> 222  
<211> 792  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (573)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (585)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 222

```
tgcgagaaga cgacagaagg ggagagactt gagggaggcg ctgcgactga caagcggctc 60
tgcccgggac cttctcgctt tcctctagcg ctgcactcaa tggaggggcg ggcaccgcag 120
tgcttaatgc tgtcttaact agtgtaggaa aacggctcaa cccaccgctg ccgaaatgaa 180
gtataagaat cttatggcaa gggccttata tgacaatgtc ccagagtgtg ccgaggaact 240
ggccttttcgc aaggagagaca tcctgaccgt catagagcag aacacagggg gactggaagg 300
atgggtggctg tgctcattac acggtcggca aggcattgtc ccaggcaacc ggggtgaagct 360
tctgattggt cccatgcagg agactgcctc cagtcacgag cagcctgcct ctggactgat 420
gcagcagacc tttggccaac agaagctcta tcaagtcca aacccacag gcttgcttcc 480
cccagacac ccattottac ccaagggtgc caccctttcc cttaccctaaa aaatcaaggg 540
ggaaattttt acccaaagggt tcccccaact ttnggcccga cgggnaaccc ccaaaggana 600
caaaggaggg gtattattca ggggtgcccc acccanttaa ggttgcaagg aggaaaggca 660
ttttgggggg ggaacccagg tttggggccc ccaacgttng ggtataaaaa aggggttgtt 720
ccaggaggag gattgggcaa agttgttcc ttttctttg gttaggagcc tntttaacaa 780
aaccagctt gt 792
```

<210> 223

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (851)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (885)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 223

```

ccccctcttg cagtaccccc gccctcttcc tcccaccaca atgagatcct aagatggcgg 60
tggtgcgggc gggtggcgct gcgtactgag gtcgaaaagg cggccactgg ggccgaggca 120
gccaggaaac gtgtgggcct ctctgctgcg gtctccgagg gccgaccgct gccggcgggc 180
ggtcgtgggg gctgactgtc gctctgcctt tgacaggaga ggctgcttct tgtagaggaa 240
acagctttga agtggtggagc gggaaaaggag cagtttctga gctgcaaaaa ctagtttcta 300
aacagagagt taattgttaa atccagtatg gccacaggag gaggtccctt tgaagatggc 360
atgaatgatc aggtattacc aaactggagt aatgagaatg ttgatgacag gctcaacaat 420
atggattggg gtgccaaca gaagaaagca aatagatcat cagaaaagaa taagaaaaag 480
tttggtgtag aaagtataaa aagagtaacc aatgatattt ctccggagtc gtcaccagga 540
gttgaaggc gaagaacaaa gactccacat acgttccac acagtagata catgagtcag 600
atgtctgtcc cagagcaggc agaattagag aaactgaaac agcggataaa cttcagtgat 660
ttagatcaga gaagcattgg aagtatttcc caaggtagag caacagctgc taacaacaaa 720
cgtcagctta gtgaaaaccg aaagcccttc aactttttgc ctatgcagat taataactaac 780
aaggagcaaa ggtgcatttt acaagtcccc caaacagagg aaacgggttg gttcagcaca 840
gtgttaaagg nttgttttgc tttctgggtt ttaagtaatt gaccnctttg gccanacttt 900
tccgggtgtt ntgaaggagg t                                     921
```

<210> 224

<211> 1979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1949)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1953)

<223> n equals a,t,g, or c

<400> 224

```

ggcgccgccc aagcgccaga cgcgagctgg gaaaaggagg gcagaggagg cggaggcaga 60
ggcagaggca gagcccggtg ccgagaccaa gcgacagacc ggcggggctg ggccctcgaa 120
agccggctcg gcgagctctc ccgacacccg agccggggag gaaaagcagc gactcctcgc 180
tcgcatcccc gggagccgca ctccagactg gcccggtagt cagggggtca ggagcagatc 240
ccgaggcagg ctttgcctcag cctccgacga gggctggccc tttggaaggc gccttcaaca 300
gccggaccag acaggccacc atgaccgaga attccacgtc cggccctgcg gccaaagcca 360
agcggggcaa ggctccaag aagtccacag accaccccaa gtattcagac atgatcgtgg 420
ctgccatcca ggccgagaag aaccgcgctg gctcctcgcg ccagtccatt cagaagtata 480
tcaagagcca ctacaagggt ggtgagaacg ctgactcgca gatcaagttg tccatcaagc 540
```

```
gcctgggtcac caccgggtgtc ctcaagcaga ccaaaggggt gggggcctcg gggtccttcc 600
ggctagccaa gagcgacgaa cccaagaagt cagtggcctt caagaagacc aagaaggaaa 660
tcaagaaggt agccacgcca aagaaggcat ccaagcccaa gaaggctgcc tccaaagccc 720
caaccaagaa acccaaagcc accccggtca agaaggccaa gaagaagctg gctgccacgc 780
ccaagaaagc caaaaaaacc aagactgtca aagccaagcc ggtcaaggca tccaagccca 840
aaaaggccaa accagtga aa ccaaaagcaa agtccagtgc caagagggcc ggcaagaaga 900
agtgaacaat aagtcttttc ttgcggacac tccctcctgt ctctatttt ctgtaataa 960
ttttctcctt ttttctctct tgatgctcac caccacctt tgcccccttc tgtctgact 1020
ttataagaga caggatttgg attcttcaga aattacagaa taattcattt ttctttaacc 1080
agttgtgcaa ggacagcaac aaccaatcta atgatgagaa tgtacttata ttttgttttg 1140
ctattaacct acttacgggg ttagggattt gcgggggggc ttgtgtgttt tgttggttg 1200
tttgccatga aggtagatgt ggggtggggag aagacacaag gcagtttggt ctggctagat 1260
gagaggggaa ccaggaattg tgaggttagc aggaatatct ttaggggtgag tgagttttcc 1320
ttgagttggg caccggtgtg gagagtttca gaacctttgg ccagcaggag agaggtggta 1380
gggagcagcc agccggcaaa ggaaggaggt ggaaaaaac cgccaccggg ctgacttcca 1440
cctcccagtg gtgagcagtg ggggcccaaa cccagtttcc ttctcatttt tgttagtttg 1500
cccttcggc ctccctattt tcttagggaa ggggagtggt gtccaagtga cagctggatg 1560
ggagaagcca tagtttctcc cagtgcagct aggatgtagc cattggggga tctttgtggc 1620
ttcagcaaat tctctgttta aaccggagtg aaaacttcag gggaagggtg gggagtcagc 1680
caagtgcctc agtgtgccct gttgaaactt aggtttttcc acgcaatcga tggattgtgt 1740
cctaggaaga cttttctttt cctctggatt tttgttcctc ctgtacaaga ggtgtctttg 1800
cttggttttg tggggtcgcg gccacttaaa acctcccgat ctctttttga gtcccttttt 1860
taaacaaagt ttacttgtgc cgggaaaatt ttgctgtctt tgtaatttta aaactttaaa 1920
ataaattgga aaagggaraa aaaaaaagna aanaaaaaaa aaaaaaaaaa aaaaaaaaaa 1979
```

<210> 225

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<400> 225

```
tcgaccacg cgtccgcca cgcgtccggg aaacaggaga tcgtggatcc tccttcaaaa 60
atggaggatg gaaagcccgt ttggcgcca caccctacag atggatttca gatgggcaat 120
attgtggata ttggccccga cagcttaaca attgaaccct tgaatcagaa aggcaagaca 180
tttttggtc tcataaacca agtgtttcct gcagaagagg acagtaaaaa agatgtggaa 240
gataactgtt cactaatgta tttaaatgaa gccacactgc tcataatat caaagttcga 300
```

tatagtaaag acagaattta tacatatgtc gccaacattc tgwtgcagt gaatccatac 360  
tttgacatac ctaaaatata tcttcagagc ataaagtcac atcaaggaaa atctcttggg 420  
acaagaccac ctocagggtct ttgcaattgc tgataagcct ttcgggacct ggaagggtgcc 480  
ccaagatgag tcagtcctaac catggnatcc nggagaatcc aggggcccggg gnaaaccagg 540  
a 541

<210> 226  
<211> 277  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<400> 226  
tcgacccacg cgtccgtgaa taagcaatct ggccctttgag ggggctgttg cggtacagac 60  
aattctgttg agcggcttcg gcggctccga ggagaagcaa tatgttaagg atacctctaa 120  
gaagggcctt agtangcctt tctaataagt cttccaaagg atgtgttcga acaactgcca 180  
cagcagcaag caacttratt gaagtatttg ttgatgtgca rtctgtcatg gtggaaccrg 240  
gaackacygt cctccaagct tgtgagaagg ttggcat 277

<210> 227  
<211> 2069  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2026)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2042)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2050)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2061)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2062)

<223> n equals a,t,g, or c

<400> 227

```
gggtcgaccc acgcgtccgg gcgacattag ctacgcctcg ctctactctc tctaacggga 60
aagcagcgga atacaagaga ctgaactgta tctgcctcta tttccaaaag actcacgttc 120
aactttcgct cacacaaaagc cgggaaaatt ttattagtcc tttttttaa aaaagttaat 180
ataaaattat agcaaaaaaa aaaaggaacc tgaactttag taacacagct ggaacaatcc 240
gcagcggcgg cggcagcggc gggagaagag gtttaattta gttgattttc tgtggttgtt 300
ggttggtcgc tagtctcacg gtgatggaag ctgcacattt tttcgaagg accgagaagc 360
tgctggagggt ttggtttctc cggcagcagc ccgacgcaaa ccaaggatct ggggatcttc 420
gcaactatccc aagatctgag tgggacatac ttttgaagga tgtgcaatgt tcaatcataa 480
gtgtgacaaa aactgacaag caggaaagctt atgtactcag tgagagtagc atgtttgtct 540
ccaagagacg tttcatTTTT aagacatgtg gtaccaccct cttgctgaaa gcactgggtc 600
ccctgttgaa gcttgctagg gattacagtg ggtttgactc aattcaaagc ttcttttatt 660
ctcgtaagaa tttcatgaag ccttctcacc aagggtaccc acaccggaat tccaggaag 720
aaatagagtt tcttaatgca attttcccaa atggagcagc atattgtatg ggacgtatga 780
attctgactg ttggtactta tatactctgg atttcccaga gagtccgggt atcagtcagc 840
cagatcaaac cttggaaatt ctgatgagtg agcttgaccc agcagttatg gaccagttct 900
acatgaaaga tgggtgttact gcaaaggatg tcaactgtga gagtggaatt cgtgacctga 960
taccaggttc tgtcattgat gccacaatgt tcaatccttg tgggtattcg atgaatggaa 1020
tgaaatcgga tggaacttat tggactattc acatcactcc agaaccagaa ttttcttatg 1080
ttagctttga aacaaactta agtcagacct cctatgatga cctgatcagg aaagttgtag 1140
aagtcttcaa gccaggaaaa tttgtgacca ccttgtttgt taatcagagt tctaaatgtc 1200
gcacagtgtc tgcttcgccc cagaagattg aaggttttta gcgtcttgat tgccagagtg 1260
ctatgttcaa tgattacaat tttgttttta ccagttttgc taagaagcag caacaacagc 1320
agagttgatt aagaaaaatg aagaaaaaac gcaaaaagag aacacatgta gaaggtgggtg 1380
gatgctttct agatgtcgat gctgggggca gtgctttcca taaccaccac tgtgtagttg 1440
cagaaagccc tagatgtaat gatagtgtaa tcattttgaa ttgtatgcat tattatatca 1500
aggagttaga tatcttgcat gaatgctctc ttctgtgttt aggtattctc tgccactctt 1560
gctgtgaaat tgaagtgcac gtagaaaaaa ccttttacta tatgaaactt tacaacactt 1620
gtgaaagcaa ctcaatttgg tttatgcaca gtgtaaatatt tctccaagta tcatccaaaa 1680
ttccccacag acaaggcttt cgtcctcatt aggtgttggc ctcagcctaa ccctctagga 1740
ctgttctatt aaattgctgc cagaatttta catccagtta cctccacttt ctagaacata 1800
ttctttacta atgttattga aaccaatttc tacttcatac tgatgttttt ggaaacagca 1860
attaaagttt ttcttccatg agttgagtc ttaagaaaat gattccagtt actcattttg 1920
catatttgct attttaacat tattggaccc tgcatttata gtcctttgat ttcttccttc 1980
tccttggtgt ctccccaag accccaaata aagcaataca ctgttnaaca aaaaaaaaaa 2040
anggggggcn gccctagggg nnccaagct 2069
```

<210> 228

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<400> 228

```
ttccagtcag cggctgcagg gtcgggctcg cgcgcgtcctc tccccgcccg cgccgkattc 60
taatgtagga actggtgaga agaaggtgac tgaagcctgg atttctgagg atgaaaactc 120
acataggacg acgtcagaca gactcacggt gatggagctc ccctctcccg agtctgagga 180
agtccacgag cccagattag gggagctctt gggaaatcca gaaggtcaga gcctggggag 240
ttccccctct caggacaggg gctgcaacag gtgacagtga cccattngaa gatccagaca 300
ggagagacag ctcaagtgtg caccaagtca ggaagaaacc atattctgaa atcagacttc 360
ttctggcttc anagagagct ccttagaagg gggaagccat tccttgccgat atcctgtngg 420
gaaaccttca cgtttaattc ggacctaaat aaggcatcgg antttcgcac c 471
```

<210> 229

<211> 1640

<212> DNA

<213> Homo sapiens

<400> 229

```
tcgaccacag cgtccgatgg cgactttggt cgaactgccg gactcgggtcc tgctcgagat 60
cttctcttac ctcccgggtc tgtmaccgct ggaagaggct ggtggacgac cggtggtgtg 120
ggcgacatgt cgacctgacg ctctacacga tggcgacctc aagtcattgt gcacctcctt 180
cgaagggtaca tggcatcccc gctccattcc ctgcggatgg gtggctacct gttctctggc 240
tcccaggccc cccagttgtc ccctgctctg ttgagagccc tgggccagaa gtgccccaac 300
ctgaagcgcc tctgcctgca cgtggccgac ctgagcatgg tgcccatcac cagcctgccc 360
agcaccttga ggaccctgga gctgcacagc tgcgagatct ccatggcctg gctccacaag 420
cagcaggacc ccaccgtgct gcccctgctt gaatgcatcg tgctggaccg cgtccccgcc 480
ttccgtgacg agcacctgca gggcctgacg cgcttccggg ccttgcgctc gctggtgctg 540
ggtggtacct accgtgtgac cgagacaggg ctggatgctg gcctgcagga gctcagctat 600
ctgcagaggc ttgagggtgct gggctgcacc ctgtctgccg acagcacctc gctggccatc 660
agccgccacc ttccgagatg tgcgcaagat ccggctgacc gtgagggcct ctctgcccct 720
ggcctggctg tgctggaggg aatgccggcc ctggagagtc tgtgcctgca gggtccccctc 780
gtcacccccag aaatgccctc cccactgaa atcctctcct cctgcctcac tatgccccag 840
ctcagagtcc ttgagctgca ggggctgggg tgggagggtc aggaggcgga gaagatcctg 900
tgtaaggggc tgccccactg tatggtcatc gtcagggtt gccccaaaaga gtctatggac 960
tggtggatgt aactactcca cctgcccttg ggacctatcc cagttttcat cattgagccc 1020
cagacctctt gagcagcacc ttgaagaggg cagataatca gacttgagga aactgaaagc 1080
cccaggttga gagaacagag gcctagggac ctccagacca ttggaatcac tgtttgccag 1140
ctgtgtggcc ttggtcatat catcagcctc tgggaagcct agttcccaca tctggaaata 1200
aggatgatca tagctacctc acggttacat tgcaaagcct tactctaaaa gctcccagcc 1260
tccagaggct ctcaatgaag agtcaccttc atggtcgtct tcaggaacag gacggatgaa 1320
```

gaaggggttg ggtaagact caggggcacc tgagggctctg agccccctta tgagtaccca 1380  
agaaggactg tctatgcatg cacacccaca agcctataca ccatttatat acctacacgc 1440  
acgcaagaga cgcggagaga taggcgatgc agactcgcga ttcaatgatc gatatgctca 1500  
taaaagtgc caattatatt ttctgtatct tgtatgctgt attttccaag acgtatatta 1560  
ttttactatt aaagaaaaaa atcatttttt tttcccgaaa aaaaaaaaaa aaaaaaaaaa 1620  
aaaaaaaaaa aaaaaaaaaa 1640

<210> 230

<211> 1970

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1963)

<223> n equals a,t,g, or c

<400> 230

cngncccagag cccagagcgc cggcggcccg actcccggcc gcccttttct ttctcctcgc 60  
cggcccagaga gcaggaacac gataacgaag gaggcccaac ttcattcaat aaggagcctg 120  
acggatttat cccagacggt agaacaaaag gaagaatatt gatggatttt aaaccagagt 180  
ttttaagag cttgagaata cggggaaatt aatttgttct cctacacaca tagataggg 240  
aagggtgttt ctgatgcagc tgagaaaaat gcagaccgct aaaaaggagc aggcgtctct 300  
tgatgccagt agcaatgtgg acaagatgat ggtccttaac tctgctttaa cggaagtgtc 360  
agaagactcc acaacaggtg aggagctgct tctcagtgaa ggaagtgtgg ggaagaacaa 420  
atcttctgca tgtcggagga aacgggaatt cattcctgat gaaaagaaag atgctatgta 480  
ttgggaaaaa aggcggaaaa ataataaagc tgccaaaaga tctcgtgaga agcgtcgact 540  
gaatgacctg gtttttagaga acaactaat tgcactggga gaagaaaacg ccactttaaa 600  
agctgagctg ctttactaa aattaaagt ttggtttaatt agctccacag catatgctca 660  
agagattcag aaactcagta attctacagc tgtgtacttt caagattacc agacttccaa 720  
atccaatgtg agttcatttg tggacgagca cgaaccctcg atggtgtcaa gtagttgtat 780  
ttctgtcatt aaacactctc cacaaagctc gctgtccgat gtttcagaag tgtcctcagt 840  
agaacacacg caggagagct ctgtgcaggg aagctgcaga agtcctgaaa acaagttcca 900  
gattatcaag caagagccga tggaaattaga gagctacaca agggagccaa gagatgaccg 960  
aggctcttac acagcgtcca tctatcaaaa ctatatgggg aattctttct ctgggtactc 1020  
acactctccc ccactactgc aagtcaaccg atcctccagc aactccccga gaacgtcgga 1080

```
aactgatgat ggtgtggttag gaaagtcattc tgatggagaa gacgagcaac aggtccccc 1140
gggccccatc cattctccag ttgaactcaa gcatgtgcat gcaactgtgg ttaaagttcc 1200
agaagtgaat tcctctgsct tgscacacaa gctccggrtc aaagccaaag ccatgsagat 1260
caaagtagaa gcctttgata atgaatttga ggccacgcaa aaactttcct cacctattga 1320
catgacatct aaaagacatt tcgaactcga aaagcatagt gcccgaagta tgggtacattc 1380
ttctcttact cctttctcag tgcaagtgcac taacattcaa gatttgtctc tcaaatecga 1440
gcaactggcat caaaaagaac tgagtggcaa aactcagaat agtttcaaaa ctggagtgtg 1500
tgaaatgaaa gacagtggct acaaagtttc tgaccagag aacttgtatt tgaagcaggg 1560
gatagcaaac ttatctgcag aggttgtctc actcaagaga cttatagcca cacaaccaat 1620
ctctgcttca gactctgggt aaattactac tgagtaagag ctgggcattt agaaagatgt 1680
catttgcaat agagcagtcc attttgtatt atgctgaatt ttcactggac ctgtgatgtc 1740
atttcaactgt gatgtgcaca tggtgtctgt ttggtgtctt tttgtgcaca gattatgatg 1800
aagattagat tgtgttatca ctctgcctgt gtatagtcag atagtcctg cgaaggctgt 1860
atatattgaa cattatTTTT gttgttctat tataaagtgt gtaagttacc agtttcaata 1920
aaggattggg gacaaacaca gaactcctgc tncattgcat tgntttgatg 1970
```

<210> 231

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 231

```
gcgagactcc gtctcaaaac aaaacaaata aaaaaaacia acagtatTTT ttaggaattc 60
atTTTatTTT aaatTTTgta aggaggagtt acaaaaagac aaatactaca tatgattcca 120
cttgtcatat ctagagtcaa attcatggag acagaaagta gaaagggtgg taccagcggc 180
tggaaggag agaagtgtga gTTtaatggg tatagaatTT tagTTTtGta aggtgaaatg 240
agTTctggag attggttgca cnaacagtgt gaatatactc aacactactg aactgtanac 300
tTaaaatgat 310
```

<210> 232

<211> 2833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2828)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 232

```
ggcagaggcc agggccaagg ccgaggcggc agggctgcga gaggcggcgg caccgacgacg 60
gtccctcagc ccagccacca tgagcaccaa gcagatcact tgcaggtatt ttatgcatgg 120
tgtgtgtcgg gaaggaagtc agtgcctatt ctcacatgac ttggcaaaca gcaaaccgtc 180
caccatctgc aagtactacc agaagggcta ctgtgcctat ggaactcggg gcagatatga 240
ccacacgagg ccctctgctg cagctggagg tgctgtgggc accatggccc acagtgtgcc 300
ctccccagct ttccacagtc ctcaccctcc ttccgaggtc actgcatcca ttgtgaaaac 360
taactcacat gaacccggaa agcgtgaaaa gagaacattg gttcttagag accgaaatct 420
ctctggcatg gctgaaagga agaccagcc gagcatgggt agtaatccag gcagctgcag 480
cgacccccag cccagccccg agatgaagcc gcattcctac ctggatgcc a tcaggagtgg 540
ccttgatgac gtggaggcca gcagctccta cagcaacgag cagcagctgt gcccctacgc 600
agctgctggg gagtgcgggt ttggggatgc ctgtttctac ctgcacgggg aggtgtgtga 660
aatctgtagg ctgcaagtyt tgcaccatt cgaccagag cagaggaagg ctcacgaaaa 720
gatctgcatg ttgacgttcg aaacagagat ggaaaaaggcc tttgccttcc aggcaagcca 780
ggacaaagtg tgcagtatct gcatggaagt gatcctggag aaggcctctg cttctgagag 840
gagatttggg attctctcca attgcaatca cactactgt ttgtcctgca tccggcagtg 900
gcgggtgtgc aaacagtttg aaaacccaat cattaagtct tgtccagaat gccgtgtgat 960
atcagagttt gtaattccaa gtgtgtattg ggtggaagat cagaataaaa agaacgagtt 1020
gattgaagct ttcaaacagg ggatggggaa aaaagcctgt aaatactttg agcaaggcaa 1080
ggggacctgc ccat ttgtaa gcaaatgtct ttatcgccat gcttaccocg atggggcggt 1140
agcagagcct gagaaacctc ggaaacagct cagttctcaa ggcactgtga ggttcttta 1200
ttcagtgcgg ctctgggatt tcacgagaa ccgagaaagc cggcatgtcc ccaacaatga 1260
agatgtcgac atgacagagc tcggggacct cttcatgcac ctttctggag tggaaatcatc 1320
agaaccctaa agagtagatg gttgccctgc atcttgggct ccacggccg aaactttccc 1380
aagccagggt gtgcggagnt tccctgtact gcagccaagg tgacgtgtga cttggatttg 1440
agtggagttg ggcttagcct tagtctcatt caatctccat tattacagcc atggggaaga 1500
gtgaaagata taaagtaacc taattaaatg tatggaattg ctatttttat agctgatata 1560
gttacacctc aagccctca ggggtaacaa ctaacaaaca ccaaactgt ttggattgat 1620
tgctttaaaa aacaaacctg gctcttayct ttgatctttt cttccccaga aatagtaaac 1680
ttgcagctgc ccctaattgca gcatattttt cttaccaaaag gagtcttcag ccctataaaa 1740
ggattcctct atagtgtatt tctctagtgt atttagtgtg tcgtcaaaat tttgatttat 1800
acagagcttt caagaacaca caatgcaaag tgagcgaca tagctgttaa caaacatata 1860
acttttttct agggctttta ggggtgtcat ttttttcaag ttctctcaag tgtcccaa 1920
cagggtagca atcttgttgc cacatgtgca gcaaacaaag tggaagtata gatcttcttc 1980
tcccttaggg aggtctctga aggagcagga ggtacagtac tgggtagcag tctggccctc 2040
ctgtcgtctg gttggtgttg gggcctccag ccagggccct ctagggaac caagcctctg 2100
ctctcacctg tgggttcttg cccatcaggg taattgtatt gagaactcaa atatacgtgc 2160
acttacatgt gtggttcgta ctcaagtgat ctattatcta gcctgcaaag cctggctttg 2220
atttgaaatt ttgtaaaaat ttcatggcac ccaaggtttc tgattctgac ccagcagtg 2280
tcctgaagag agctgatggc aagtcttgta gtcattttga ttttaattga agggtagca 2340
taacctgtg aaccagcact agcttgttcc aagctggaat ttatctaata ttttttgtg 2400
tttaaaaaag ctgtacctac caaataaata aatagtttat aaaatgtatt acttaaggta 2460
ttagctgagt ttagagtact ttctgcttaa ttaattttta tacttaactc ttcagtagag 2520
gtttacaaag agtacaaagg tttaaattaca aattcattcc cagcctaggc tctgggcaca 2580
tttctgttgc ttgaattctg ctctgaaga ggggaacaa atggggcatt caagtgtgta 2640
gctcagaatt actttaaaag gaggtaacag ccagccatta cacctaaatt taattttatt 2700
tattaaaaata acataattga gggacatca gataactgta ttttgtcagg tgcaataaaa 2760
acaaaattaa aacccaaatc atcaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
```



aaaaaaaaaa aaa

2833

&lt;210&gt; 233

&lt;211&gt; 692

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (289)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 233

```
ggcagagggtc caacgtagac agtgggtctca tkcactccat aggcttaggt taccacaagg 60
atctccagac aagagctaca tttatggaag ttctgacaaa aatccttcaa caaggcacag 120
aatttgacac acttgacaaa acagtattgg ctgacgggtt tgagagattg gtggaactgg 180
tcacaatgat gggatgatcaa ggagaactcc ctatagcgat ggctctggcc aatgtgggttc 240
cttgttctca gtgggatgaa ctgactcgag ttctgggttac tctgtttgna ttctcgccat 300
ttactctacc aactgctctg gaacatgttt tctaaaagaag tagaattggc agactccatg 360
cagactctct tccgaggcaa cagcttggcc agtaaaataa tgacattctg tttcaaggta 420
tatgggtgcta cctatctaca aaaactcctg grtcctttat tacgaattgt gatcacatcc 480
tctgattggc aacatgttag ctttgaagtg gatcctacca gkttagaacc atcagagagc 540
cttgaggaaa accagcggaa cctccttcag atgactgaaa agttcttcca tgccatcatc 600
agttcctcct cagaattccc ccctcaactt cgaagtgtgt gccactgttt ataccaggca 660
acttaccact ccctactgaa taaagctaca gt 692
```

&lt;210&gt; 234

&lt;211&gt; 1353

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (649)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1020)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1255)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

```
ggcacgagcc gatagctgct tcgggattgg cgtccgggcg gctatctagg ggctgctggg 60
aagatggcgg actcgggtgg tagccgatga ggaggccgcg gggggaaccc ggcccccg 120
ccccgagacc gactgaggga gcgacctgcg cagggcccgg ggagtcattg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctcagacctc ccctgctcgg ctgtctggcc 240
```

```
tgctgctgat ccctccagta cagccctgct gtttggggcc cagcaaatgg ggggaccggc 300
ctgttgaggg agggcccagt gcaggctctg tgcaaggact gcagcggctt ctggaacagg 360
cgaagagccc tggggagctg ctgcgctggc tgggccagaa cccagcaag gtgcgcgccc 420
accactactc ggtggcgctt cgtcgtctgg gccagctctt ggggtctcgg ccacggcccc 480
ctcctgtgga gcaggtcaca ctgcaggact tgagtcagct catcatccga aactgccctt 540
cctttgacat tcacaccatc cacgtgtgtc tgacacctgc agtcttactt ggctttccat 600
ctgatggtcc cctggtgtgt gccctggaac aggagcgaag gctcgcctnc cctccgaagc 660
cacctcccc tttgcagccc cttctccgag gtgggcaagg gttggaagct gctctaagct 720
gcccccgttt tctgcggtat ccacggcagc atctgatcag cagcctggca gaggcaaggc 780
cagaggaaact gactccccac gtgatggtgc tcctggccca gcacctggcc cggcaccggt 840
tgcgggagcc ccagcttctg gaagccattg cccacttcct ggtggttcag gaaacgcaac 900
tcagcagcaa ggtggtacag aagttggtcc tgcccttttg gcgactgaac tacctgcccc 960
tggaacagca gtttatgccc tgcccttgaga ggatcctggc tcgggaagca ggggtggcan 1020
ccctggctac agtcaacatc ttgatgtcac tgtgccaaact gcggtgcctg cccttcagag 1080
ccctgcactt tgttttttcc cctggcttca tcaactacat cagtggtagc cagccaggat 1140
ggctggctgg gcccctgagg gctggagagg caggggarca aggtggcctg cagcccagag 1200
ccccagtccc cgcctcccca caggcaccac tcattgctctg attgtgcgtc gctanctctc 1260
cctgctggaa aaggccgtgg agctggagtc ccaggataac ggggtccccg gctttcccga 1320
aggcagcaag ttgccatttt cccagctttc atc 1353
```

<210> 235

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<400> 235

```
ggcacgagca ggatccaaaa tggcagcgct gtgcgccttag ctgggagagc gagccgttgt 60
ggctgttttg gagacttatg gtcaccctga agtactgcct gcctctagtg tcgcgtccct 120
ccagtatccg atgggagcgc cgtccgcagg naatgtgtct ctctgatcat ggtgcctcgt 180
gtccagctct ggggaagacc gagacgaaat cgagtcagct ggcgttgga gagggcttat 240
ttccgcttcc gcttgccac tttcaggaat ttgattctga gagcagggct gcggttccag 300
gcagggtttg tacacatatt tgcgttgga ggaaaaaaag aaccta 346
```

<210> 236

<211> 2271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 236

```
gtcagaggct ggaaagtggg gactgtattg ggggtgctgga ttgtgaatgg tgcattggtgg 60
acagtgtatg aaagactcac ctggacaaac cctactgtgc cccccagaaa gaatgcttcg 120
```

```
gggggattgt gggagccaaa agtccctacg ttgatgacat gggagcaata ggtgatgagg 180
tgatcacatt aaacatgatt aaaagcgccc ctgtgggtcc tgtggctgga gggatcatgg 240
gatgcacat ggtcttggtc ctggcggtgt atgcctaccg ccaccagatt catcgccgga 300
gccatcagca tatgtctcct cttgctgccc aagaaatgtc agtgcgtatg tccaacctgg 360
agaatgacag agatgaaaag gacgacgaca gccacgaaga cagaggcatc atcagcaaca 420
ctcggtttat agctgcggtc atcgaacgac atgcacacag tccagaaaga aggcgcgct 480
actggggtcg atcaggaaca gaaagtgtc atggttacag caccatgagc ccacaggagg 540
acaatgnaaa atcctccatg caacaatgac cccttgtagc ccggggtcga tgtgggaaa 600
ccatgatgag gacttagacc tggatacccc ccctcagact gctgccctac taagtcacaa 660
gttccaccac taccgggtcac accaccctac acttcacat agccaccact tacaggcggc 720
cgtcacggtc cacactgtcg atgcagaatg ctaacaatct cctcacctcc acgccaaagt 780
gagatctggg agctacagaa tgttctggaa agaaaaagaa ccggcttaaa acccacagca 840
agagacctcc cttgtgtttg tgctttgtgc agagtgttt gagtcatttc ctgcctgtcg 900
acatggttaa aaacgagaga aacaacaaca cagtcacatt tgtgaagatg tgaggctggt 960
tctgaaatgg aggggaaata agcctgatga acagacctgc cataacacta atggaaggta 1020
acagaaggcg aacctccaaa cacagagacg gaacctgcaa gtgaagctga gccagaggaa 1080
tgttccaaag agccagaagc attcagctct ccttaactgg aagagagaaa aatctgtc 1140
cccagagact ggaatgtggc acatgcagat acaaatgtgt gcattgaaga tttcgctttg 1200
tttcttagcg gtacctggat accacagttg ctgtatggaa ctcatgttat gctctaaacg 1260
atgcactctc gaatttctaa gtaaaggatt atttttctac tatttattga actttcaaac 1320
attctcaaac tttgggaaa aggaaaggaa acacaggaga agttttcagc agttgccccg 1380
agctgttttg tgtgtaatga agtggttctt tgattaagga gctctatttc ttatttaact 1440
gatatccac tgccccctc caaaaaatag gaaaatgaag aaatctttct ctctgacttg 1500
tttacatcat ttcacgaaa cacatctttg tttgtaatgc agtattcttt ctctgtgttt 1560
gacagagatg gggaggggca gaggaattta agaggtttta aaagaaatgt tatgtttctt 1620
atgacttgtt tccactctc gtacaatgct attcttaggt ttctacgaaa cctaattgta 1680
gaaccgcato ctttcagcta agggagggtt ggatttattt tccttgtttt agagactaca 1740
aatttttaaa tatccattt tgaactgagaa tattgacata taagggaaga agttttctaa 1800
attgtgaaag tctggttctt aattaaagaa tttttttttt aatatcacgg ttaaaagctg 1860
ctgccagtta gccaaagacat tatccaccaa attgctttgt gatattatac gggattaatc 1920
aaatctggct actataacat ggggcattgt aactttaaag tagtgtttta attacagtga 1980
tgtattttag actcacattt tgtgattcaa atatgttata aaggcattct tgcaccatgg 2040
taaagaatgt gtgtggtaaa tctccgttta tatgtagttg gaaaaaatc actgaataat 2100
gttttaatag tagggatta tgatacaatg taaaaaacia ttggttcttc agcagtacag 2160
aaagtaaaact atatatgtgc tatcaggaaa ccccttcata ctgtgtataa aattgcaatc 2220
tagtgaaata aactgtatgc aatggaaaaa aaaaaaaaaa aaaaaactcg a 2271
```

<210> 237

<211> 3050

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3024)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3031)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 237

```
aaattgaaac tgaacatggg accatgccat ccttctagca taatggwgaa gtctgamctg 60
aggrgtatct ttgatgaaag acatttagga ccctagaaac taaatcttgt caccaagact 120
ttatagtaaa gtagtagcaa aattattttt aaaagacttt cttcctttta ctaccattt 180
cctctcttgg gaaagctgat gagcaaatga tccaagactc atttctttat taggcaaaagt 240
cagaatattt cccctctgaa aatctgaatt atgccctcat tctttttcaa gaaatatctc 300
aaagagcaaa tagaattaaa catgacactt gattgtctga ttatttggca tgtataaaat 360
tatcatgtgg cttaagtgtc cttaagtga aatttaaact tagacctgaa acctttacag 420
ttggatgtag cgttgagctt ttgcatgtyt yctgtataat aaaccacttt kgtytkgtyt 480
gtttkgtctt tnaacctaca cttttatcat tactctaaca gatttagggc ttctctttct 540
ctacagctaa gtaagggaat atgtgcaatt atgagacata caaaaaagga aagggaagg 600
acttctaagt agcaaactct tgccatgaag tagatgtggc gtgaagatac agagcctgag 660
gatagtaatt ttccctgagc cagcacaca ggcttttatt tcatgccttt tctctttctg 720
tgccgtcacc tttagaaaaa acgattgcac cttctccaag tctgcctttt taacagctac 780
agttaagttg gcaagacttc cccagctctg aatatagcca ttgcccact cggcctctt 840
tgcgagactg actcaaatct gtgatcttct gttcagcata cacatcagca aagtgagaag 900
atgagcacta aatataggct ctattaactt tacttttaga ttactgcct tcaaaaagt 960
cctattctga gcaacataaa cgttattcct tacatatgta tgtacacacg gtaccagag 1020
tcgtactgtg cagccttcaa aaacatacca tcagaaaag taggtgctga gataaggaaa 1080
ctttgccaaa tgaaagaaag tcaactcact ccaatatccc ctctcaagcg gctaccgtga 1140
aacgggctgc aaacacattc cctgagcact ccttgctgat acagcttctt tatatttata 1200
tcctactgga tggtagcata ttgctaagg ttctgtact ctgcttcaag ggaatgtaag 1260
ctttatggca ttgaaacatt taggaaaaaa aaagatgttt aagagaatta atagagccgt 1320
agtctgtatt aggatgtgtg tcatatgtgt gttctataaa ctaagcatcg gtgggtttag 1380
agtgttaaag tgtcagcaca ttccctctcc ttttgtctct caggctaaca tgagagaaaa 1440
tagaaaagtc ttggctgtgg ggattggaag ctccaggggc caaatgtcct tgccagatcc 1500
ttagagcatt actttgactc ctaaaaatag tagtgtatgt tatttgatgg cttttgtttc 1560
catagtcca tcaactgaca aactgtcaat actgttgat gagcagcagc atagcctaga 1620
gtgatgcatt ctacccaga ggtggcaata ggagagggtc catgtaaata ggacgaggta 1680
gacagtgcatt gattgtagga gaagggttga agggaggaca tgattccaaa aaagatcggt 1740
ctcaatgtgt cgtctgactc aaccagctgg cagattacac ttgccaaagc gttccctttc 1800
cttctaagtc agttggctcc atattcactt gaatatgcct ctgtttgggc aaagcaagat 1860
acctccactt aacctttatc caaggaagct cttggtgtcc tcttggtcat aaagttgtct 1920
cctacctaac ccagttttac caaatggaag taaaagggga caaactatgg aagatggact 1980
ccatgccatt gcagtcagcc accattctct tttccatata aggagcccca ttacataagc 2040
tacgggtgag gttggaacag ctatgtttca taatttcaag agtgtgacca ccctgctcta 2100
gtcatcatca ttggatgaat ccagttgact ctttgccaaa aggtgtgata ttttactaa 2160
aaatgcctac tcttctgtt gatgttcctt ttctgttttt acctgtoca atttccacac 2220
tagtcatttt ttttattttt tagaggatca gatttttagcg ctggaaaatg agttcaaaaa 2280
tttcagtgtg atgtcataag gatgttgga tacagagatt ttttttttcc ttggaacaa 2340
atggactggg aagaaacaca gcatggcttt gctctgagtt tcaatctgat gattatgacc 2400
atggaagata gtcttatgta aaggttaaat ggtgtttaca agtgataga taaggcggag 2460
atggtgagaa gccgggtttt ctctatgcta aatgtgtcta ctaagagcag cacttcctac 2520
tagctaagca caatcatagc cccaccgtga tgagctgcta gtctgaataa cattccctga 2580
cttagggaaa ggcacacaaa aacatataaa gaatatgtct attttcatat gtgtgatact 2640
```

```
gacagagcca tggatttcct aaaatatagg tttctctttt ttcttgtatt cttagcaaat 2700
tgcattttatt cactacatta caaaccatca ctgatgtatc caaaatagca cacatagttc 2760
agtatgaaaa taagagaata aaatctgtta taagcaagtg atttaggtat tttcttttgt 2820
gtttatgcat tatctgacta tattaaaacc tgtttttcta ttaccttct atcagttttc 2880
tctaccaatt atgttttttc aatgctctat aagaatgaat atggaaatta tatttctttt 2940
ttctgtaaaa gagttgcaac tactttatta tatttagaaa tccaataaac ttcttattac 3000
atttaaaaaa aaaaaaaaaa aatntctcgg ncgtcaaggg aattcagtgg 3050
```

<210> 238

<211> 2802

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1800)

<223> n equals a,t,g, or c

<400> 238

```
gcctgtgccc cggcggtcccc gggcaccatg ctgtccaact cccagggcca gagcccgccg 60
gtgctgtttc ccgccccggc ccgcccgcgc ccccccgcagc agttcccgcg gttccacgtc 120
aagtccggcc tgcagatcaa gaagaacgcc atcatcgatg actacaaggt caccagccag 180
gtcctggggc tgggcatcaa cggcaaaagt ttgcagatct tcaacaagag gaccagggag 240
aaattcgccc tcaaaatgct tcaggactgc cccaaggccc gcaggaggtg gagctgcaact 300
ggcgggcctc ccagtgcctg cacatcgtag ggatcgtgga tgtgtacgag aatctgtacg 360
cagggaggaa gtgcctgctg attgtcatgg aatgtttgga cgggtggagaa ctcttttagcc 420
gaatccagga tcgaggagac caggcattca cagaaagaga agcatccgaa atcatgaaga 480
gcatcggtag ggccatccag tatctgcatt caatcaacat tgcccatcgg gatgtcaagc 540
ctgagaatct cttatacacc tccaaaaggc ccaacgccat cctgaaactc actgactttg 600
gctttgccaa ggnaaaccac cagccacaac tctttgacca ctctttgtta tacaccgtac 660
tatgtggctc cagaagtgtc gggccagagc aagtatgaca agtcctgtga catgtggctc 720
ctgggtgtca tcatgtacat cctgctgtgt gggatatccc cttctactc caaccacggc 780
cttgccatct ctccgggcat gaagactcgc atccgaatgg gccagtatga atttcccaac 840
ccagaatggt cagaagtatc agaggaaagt aagatgctca ttcggaatct gctgaaaaca 900
gagccacccc agagaatgac catcacccag tttatgaacc acccttggtat catgcaatca 960
acaaagggtc ctcaaaccac actgcacacc agccgggtcc tgaaggagga caaggagcgg 1020
tgggaggatg tcaaggagga gatgaccagt gccttggtcc caatgcgcgt tgactacgag 1080
cagatcaaga taaaaaagat tgaagatgca tccaaccctc tgctgctgaa gaggcggaag 1140
aaagctcggg ccctggaggc tgcggtctct gccactgag ccaccgcgcc ctctgccc 1200
cgggaggaca agcaataact ctctacagga atatattttt taaacgaaga gacagaactg 1260
tccacatctg cctcctctcc tcctcagctg catggagcct ggaactgcat cagtactga 1320
attctgcctt ggttctggcc accccagagt gggagaggct gggagggttg gaggtgttg 1380
agagaagtga gcaagggtgt cttgaacctg tgctcatttt gcaattttat cagtaatttg 1440
acttagagtt ttacgaaac ctcttttgtt gtccttgccc cactcctctc caccagacgc 1500
cttctctctt ggatactgca aaggcttgtg gtttggttaga gggattttgt ggaaactgtc 1560
atagggattg tcctgtgtgt gtcccatctg cctccctgtt ttctcccaa cagcctgggg 1620
```

```

ttgtccccgc tggctcacgc gttctgggag ctcaaggcca ccttggagga ggatgccacg 1680
cacttcctct ctcgagagccc tcagacatct ccagtgtgcc agacaaatag gagtgaagtgt 1740
atgtgtgtgt gtgtgtgtgt gtgcacacgt gtgtatgagt gcgcagatct gtgcctgggn 1800
atcgtgcatt tgagggggcca ggggcaggca gggctgcaga gggagacggc cctgctgggg 1860
cttaggaacc ttctcccttc ttgggtctgc cctgcccata ctgagcctgc caaagtgcct 1920
gggaagccca cccagattct gaaacaggcc ctctgtggcc tgtctctatt agctgggttc 1980
cgggagggcag agaggagtga ccgggcaactg gcaactgcgat cagggaagact ggacccccag 2040
ccccagggc cccctcccc ccacttagtg ctggctcctag gtctcttgag gcactcatct 2100
actgaatgac ctctctactt ccccttcttg ccattattaa cccatttttg tttattttcc 2160
ttaaattttt agccatttct ccatggggcca ccgscagct catgtagggtg agcctgggca 2220
gcttctgttg gcagagcttt tgcatttctt gtgtttgtcc tgggttctgg ggcacagcc 2280
agctaccctt tgtgggcaaa ggcaggggcca cttttgaagt ctccctcag atttccattg 2340
tgtggccttg tgggtcaggg ggagtctttg caccaaagat gtcttgactt tgcccccttg 2400
cccatcagcc atttgccatc accccaaaca actcagcttc ggggcccgtg aggggagggg 2460
cctccccag cacagatgag gagcagctgg ggtaggctgt ctgtgccatg gcccccaact 2520
cccccttccc ttggagggag aggtggcagg aatacttcac ctttctctc cctcaggggc 2580
aggtggtgga ggggcgccc gggctgtctt tgtgtatggg ggaaggcgct gggctgcctgc 2640
agcgctctcc ttgtctcaga tgggtgtgtcc agcactcgat tgttgtaaac tgtgttttg 2700
tatgagcgaa attgtcttta ctaaacagat ttaatagtta aaaaaaaaaa aaaaaaaaaa 2760
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg gg 2802

```

<210> 239

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 239

```

acttaagggg gatttctaac gggaaatctc ggtgacacta tagaaggtag gcctgcagggt 60
accggtccgg aattccccgg tcgaccacg cgtccgctcc agggagacct gggtagggcag 120
cgtcgccgtt tctcctttct tgggcagtat ttttcccagc gccacgcgga ggctggggcca 180
ttatgagctc tgcatttcca ggacctggtc actattcagg acacggttcc agcgcagtgg 240
ttagccatgt ctgagggatg agtgacattc caagatgtgg ccattgactt ctccaaggaa 300
gagtggggat tctgaaccc tgcctcagaga gatttgtaca caactgtgat gctggagaat 360
tatcagaacc tgggtctggct gggactttcc atttctaaat ctgtgatttc actgttggag 420
aaaaggaaac tgccttgat aatggcaaaa gaagagataa gaggccatt gccagatgtg 480
ccagggtgcag agattaagga gttatctgca aagagggcta ttaatgaagt attatcgag 540
tttgacacag tgataaaatg tacaagaaac gtatgtaagg aatgtggaaa tctatactgc 600
cacaatatgc agcttactct ccataagaga aatcatacac aaaagaaatg caatcagtgt 660
ttagattgtg ggaaatactt cactcgtcaa tcaactctca ttcagcatca aagaatccac 720
acgggagaga gaccctataa atgtaacgaa tgtattaaaa ccttcaacca gagggcacac 780
cttacctagc atgagagaat tcacactggt gagaaacctt acaaattgta ggaatgcagg 840
aaaaccttca gccagatgac tcatctcaca cagcatcaga ctacacatac gagagaaaaa 900
ttccatgaat gcagtgaatg tggaaaggcc ttcagccgtg tctcagctct tatagatcac 960
cagcgaattc atagtggaga awakccgtat gaatgtaagr agtgtggaag agccttcaact 1020
caaagtggcc agctcattak acatcagaaa actcattctg gagaaaaacc ctatgagtgt 1080
agtaagtgtg agaaatcttt tgtgcacctg tctwccctga ttgaacattg gagaattcac 1140
actggagaaa aaccatatca atgtaaggac tgcaaaaaga ctttttgtcg tgtgatgcag 1200
ttcactctgc acaggagaat tcatactggg gaaaaaccct atgaatgcaa ggaatgtgga 1260
aagtcttca gcgcccattc ttctcttgtt actcataaga gaacacacag tggagaaaaa 1320
ccgtataaat gcaaggaaatg tggaaaaggc ttcagtgcgc actcttccct tgttactcat 1380
aagagaacac acagtggaga gaaaccctat acatgccatg cctgtgggaa ggccctttaat 1440

```

acttcctcca cactttgtcm acatwataga attcatactg gtgaaaaacc ctttcagtgc 1500  
agtcaatgcg ggaagtcttt agtcctttagc tgcaggt 1537

<210> 240

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 240

gaccacgtgc ggcggaaggg aagtaacgtc agcctgagaa ctgagtagct gtactgtgtg 60  
gcgccttatt ctaggcactt gttgggcaga atgtcacacc tgccgatgaa actcctgcgt 120  
aagaagatcg agaagcggaa cctcaaattg cggcasggaa cctaaagttt cagggggcct 180  
caaattctgac cctatcgaa actcaaatg gagatgtatc tgaagaaaca atgggaagta 240  
gaaaggttaa aaaatcaaaa caaaagccca tgaatgtggg cttatcagaa actcaaatg 300  
gaggcatgtc tcaagaagca gtgggaaata taaaagttac aaagtctccc cagaaatcca 360  
ctgtattaag caatggagaa gcagcaatgc agtcttccaa ttcagaatca aaaaagaaaa 420  
agaagaaaaa gagaaaaatg gtgaatgatg ctgagcctga tacgaaaaaa gcaaaaactg 480  
aaaacaaagg gaaatctgaa gaagaaaagt cccagactac taaagaaaca gaaaataatg 540  
tggaagagcc agataatgat gaagatgaga gtgagggtgc cagtctgcc ctgggactga 600  
caggagcttt tgaggatact tcgtttgctt ctctatgtaa tcttgtaaat gaaaacactc 660  
tgaaggcaat aaaagaaatg ggttttacaa acatgactga aattcagcat aaaagtatca 720  
gaccacttct ggaaggcagg gatcttctag cagctgcaaa aacaggcagt ggtaaaacc 780  
tggtctttct catccctgca gttgaactca ttgttaagtt aagggttcag cccaggaatg 840  
gaacaggagt cttattctc tcacctacta gagaactagc catgcaaacc tttggtgttc 900  
ttaaggagct gatgactcac cacgtgcata cctatggctt gataatgggt ggagtaaca 960  
gatctgctga agcacagaaa cttggtaatg ggatcaacat cattgtggcc acaccaggcc 1020  
gtctgctgga ccatatgcag aataccccag gatttatgta taaaaacctg cagtgtctgg 1080  
ttattgatga arctgatcgt atcttgatg tggggtttga agargaatta aagcaaatta 1140  
ttaaactttt gccaacacgt agacagacta tgctcttttc tgccacccaa actcgaaaar 1200  
ttgaagamct ggcaaggatt tctctgaaaa aggagccatt ggtatgttgg cgttgatgat 1260  
gataaagcga atgcmacagt gggatggtct kgaacagggg atatgtttgt ttggtccctt 1320  
ctgaaaaaga ggtt 1334

<210> 241

<211> 2438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<400> 241

ggtgcagttc caacagtaac agcgaaaatc atcgggtgat gcaagtactc aaacagatgc 60  
cctgaaactg ncacctcca accttcaagg cttttgaaga acaaagcttt attatgcaaa 120

```
cccacacac agactaaagc cacctcttgc aaaccacata cccaaaacaa agaatgccag 180
acagaagaca ctccaagtca gcccagatta ttgkggkgcc agttccgtac cagkgttkgt 240
cccatacctc ttacctttat actcaatatg ctccagtcce atttggaatt ccagktccaa 300
tgcttgkccc tatgcttatt ccattcttcaa tggatagtga agataaagtc acagagagta 360
ttgaagacat taaagaaaag cttcccacac atccatttga agctgatctc cttgaratgg 420
cagaaatgat tgcagaagat gaagagaaga agactctatc tcaggagagag tcccaaaact 480
ctgaacacga actcttttcta gacaccaaga tatttgaaaa araccaagga agtacatata 540
gtggtgatct tgaatcagag gcagtatcta ctccacatag ctgggaggaa gagctgaatc 600
actatgcctt aaagtcaaat gctgtgcaag aggtgtgattc agaattgaa cagttctcaa 660
aaggggaaac tgaacggacc tggagcaga ttttccatca gactccttg acccacttaa 720
taaaggacgg gaatccaggc acgttcccga acagacgacg acacagagat ggcttcccc 780
aaccagacg aagaggacgg aagaagtcta tagtggtgt ggagcccagg agtcttattc 840
aaggagcctt tcaaggctgc tcagtgtccg ggatgacant gaaatacatg tatggggtaa 900
atgcttgga gaactgggtt cagtggaaaa atgccaagga agagcagggg gatctaaaa 960
gtggaggggt tgaacaggcc tcattctagcc caggttctga ccccttagga agtactcaag 1020
accatgcact ctctcaagaa tctcagagc caggctgtag agtccgctct atcaagctga 1080
aggaagacat tctgtcctgc acttttgctg agttgagttt gggcttatgc cagtttatcc 1140
aagaggtgag gagaccaa atgtgaaaa atgatccaga cagtattctt tacttggtgc 1200
ttggaattca acagtacctg tttgaaaatg gtagaataga taacattttt actgagccct 1260
attccagatt tatgattgaa cttaccaa tcttgaaa atgggaacct acaatacttc 1320
ctaattggtt catgttctct cgcattgagg aagagcattt gtgggagtg aaacagctgg 1380
gcgcttactc accaatcgcc ttttaaacac ccttctttt ttcaatacca aatacttyca 1440
actaaagaat gktactgagc acttgaagct ttcttttgcc catgtgatga gacggaccag 1500
gactctgaag tacagtacca agatgacata tctgaggttc tcccacctt tacagaagca 1560
ggagtcagaa ccagataaac tgactgttg caagaggaaa cgaaatgaag atgatgaggt 1620
tccagtgggg gtggagatgg cagagaatac tgacaatcca ctaagatgcc cagtccgact 1680
ttatgagttt tacctgtcaa aatgttctga aagtgtgaag caaaggaatg atgtgtttta 1740
ccttcaacct gagcgtcct gtgtcccgaa tagcccatg tggtagtcca cattcccgat 1800
agaccctgga accctggaca ccatgttaac acgtattctc atggtgaggg aggtacatga 1860
agaacttgcc aaagccaaat ctgaagactc tgatgttgaa ttatcagatt aaaacggaag 1920
tgaggttctt attttcatac atattggtat gcaccaaact gtgaatgcat ccagctgttg 1980
gaaaatgatg tataagtcta agtctcttg acttgaccat aagatcatgg aaaacagatg 2040
acttgatgaac ccacagtggt ggatgtgcaa atgaaaattg aaggaaagaa tatgaactga 2100
gaaatgttct ttggcagtg tatagttctt agacattctc agaattgacta atttctccga 2160
gtggtgcata atcttatttt gtttgggagt aacaaatcgt ggaatatttt taaggaaaac 2220
tggtgtataa aactttacca tagtaacctt agaccttaga gaggtagctt tggagtgaag 2280
ctttggctgc aataggctac tttgcaagcc ctccgtaaaa gtcagaggag agatcagtac 2340
agagctaaga gtgacatcaa atgaggactg tgggacccag atttgaagac ccaataaaaa 2400
tactcaactt tttaaaaaaa aaaaaaaaaa aaaaaaat 2438
```

<210> 242

<211> 139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 242



```
aagaccggag cttgtccgga agattkcaaa tactgcccgc aaagctcgcg ctacaaaacc 60
gggttggar cagwccggttg atggaagttg aacagggtgct ggagtcggcg cgcaaagcaa 120
tagggactag ggatcgncg                                     139
```

<210> 243

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<400> 243

```
gctcgtgccg aattcggcac gaggcagttt ttgaaagttt gaaattaagt aaaaattaaa 60
agtcacaaaa gattttgcat gtcaagattc tagccttttt cttctggtgt actgagaggc 120
cagaggagcc cattctaggg actaagtatt gacagaattt ggttctgtgg caagaattac 180
ctggtgtcct agcactaagg accagtaggt cagagccctt gacttagatt tcaggacaag 240
aaacagaaag attggaatag gattgraatg gagtctcccc gtgattttta aaaacactta 300
statggggcc asgcgcrcrk tggctcaacg cctgtaatcc cagcactttg ggaggccaag 360
atgggtggat catgagggtca ggagatcgag accgtcctgg ctaacatggt gaaacccccg 420
ctctactaaa aatataaaaa aattaaccgg gccgtggtgg cngggcgccct gtagtccca 479
```

<210> 244

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<400> 244

```
tgggatatct ccggagcatt trgataatgt gacagttgga atgcagtgat gtcgactctt 60
tgcccaccgc catctccagc tgttgccaag acagagattg ctttaagtgg caaatcacct 120
ttattagcag ctacttttgc ttactgggac aatattcttg gtcctagagt aaggcacatt 180
tgggctccaa agacagaaca ggtacttctc agtgatggag aaataacttt tcttgccaac 240
cacactctaa atggagaaat ccttcgaaat gcagagagtg gtgctataga tgtaaagttt 300
tttgtcttgt ctgaaaaggg agtgattatt gtttcattaa tctttgatgg aaactggaat 360
ggggatcgca gcacatatgg actatcaatt atacttcac agacagaact tagtttctac 420
ctcccacttc atagagtgtg tgttgataga ttaacacata taatccggaa aggaagaata 480
tggatgcata aggaaagacm agaaatgtcc agaagattat cttagaaggc acagagagaa 540
tggaagatca ggtcagagta ttattccaat gcttactgga gnng 584
```

<210> 245  
<211> 332  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (272)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (288)  
<223> n equals a,t,g, or c

<400> 245  
ggcacagcgt tcacccgaca gtgttcacag ggcccatggt acagagcacg gagcagggtc 60  
ccccagggtg tgcgcttgcc agggccacat cttgagcctt cgctctgctc cttcgagagc 120  
cgctgctgcc ccaccccaat ccccaaccag ccaccccctc ctgcctccct gccatctgtc 180  
cctttcatcc tccttgccgt gccaaagcgc tgccatggca ccgcctgtta cctancccag 240  
ctacaaatgc cagccttgaa tctgccctgg antcccttcc tctaccangt aaacagcctt 300  
aactcagccc tgccactccc tgctctgaag ct 332

<210> 246  
<211> 1617  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (215)  
<223> n equals a,t,g, or c

<400> 246  
cccagatcc ctttcccaga gtgctctgcy ccgwgaagaa gcggctcccg gggactkggg 60  
gcattttgtg ttggctggag ctggagtaac aagatggcgt cgtccgcgga gtgacagggg 120  
tccctctggg ccggagccgg cggcagtggt ggcagcggta tcgccgccct agctcaccgc 180  
gccccttttc cagcccgcga cgtcgcgcgc caagnaggca gcggcggccg ccgagaaaca 240  
agtggcccag cctggtaacc gccgagaagc ccttcacaaa ctgcggcctg gcaaaaagaa 300  
acctgactga gcggcgggtga tcaggttccc ctctgctgat tctgggcccc gaaccccggg 360  
aaaggcctcc gtgttccgtt tcctgccgcc ctccctcgta gccttgccct gtgtaggagc 420  
cccagggcct ccgtccctt cccagaggtg tcgggggcttg gccagcctcc atcttcgtct 480  
ctcaggatgg cgagtagcag cggctccaag gctgaattca ttgtcggagg gaaatataaa 540  
ctggtagcga agatcgggtc tggctccttc ggggacatct atttggcgat caacatcacc 600  
aacggcgagg aagtggcagt gaagctagaa tctcagaagg ccaggcatcc ccagttgctg 660  
tacgagagca agctctataa gattcttcaa ggtgggggtt gcatcccccatacacggtgg 720

```

tatggtcagg aaaaagacta caatgtacta gtcatggatc ttctgggacc tagcctcgaa 780
gacctcttca atttctgttc aagaagggtc acaatgaaaa ctgtacttat gttagctgac 840
cagatgatca gtagaattga atatgtgcat acaaagaatt ttatacacag agacattaaa 900
ccagataact tctaattggg tattggggcg cactgtaata agttattcct tattgatttt 960
ggtttgggcca aaaagtagag agacaacagg acaaggcaac acataccata cagagaagat 1020
aaaaacctca ctggcactgc ccgatatgct agcatcaatg cacatcttgg tattgagcag 1080
agtcgcccag atgacatgga atcattagga tatgttttga tgtattttta tagaaccagc 1140
ctgccatggc aagggctaaa ggctgcaaca aagaaacaaa aatatgaaaa gattagttaa 1200
aagaagatgt ccacgcctgt tgaagtttta tgtaagggtt ttcttgcaga atttgcgatg 1260
tacttaaaact attgtcgtgg gctacgcttt gaggaagccc cagattacat gtatctgagg 1320
cagctattcc gcattctttt caggaccctg aaccatcaat atgactacac atttgattgg 1380
gacaatgtta aagcagaaaag cagcacagca ggcagcctct tccagtgggc agggtcagca 1440
ggcccaaac ccacaggca agcaaaactga cmaaaccag agtaacatga aaggtagta 1500
rccaagaacc aagtgcgtt acagggaaaa aattgaatmc aaaattgggt aattcatttc 1560
taacagkggt agatcaagga ggkggtttta aaatacataa aaatttggt ctgcgtt 1617

```

<210> 247

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1447)

<223> n equals a,t,g, or c

<400> 247

```

cgcggggctg gtagcgcccg gagccgtgcg akttctctac cctgcttcgc gagcgggcca 60
gagaacgcga gtcccaggat ccccgccacc casttctctt ccactgcatt ccccgggcgc 120
gtgtgggacc gaggtggaca tggatccgca gaggtcccc ctattggaag taaaggggaa 180
catagaactg aagagacctc tgattaaggc cccttccag ctgcctctct cagggaagcag 240
actcaagagg aggcctgacc agatggaaga tggcctggag cctgagaaga aacggacaag 300
aggcctgggt gcaasgacca aaattaccac atcccaccca agagttccat ccctcactac 360
agtgcacag acacaaggcc agaccacagc tcaaaaagtt tccaagaaga caggaccccg 420
gtgttcacac gctattgccg caggggtgaa gaaccagaag ccagttcctg ctgttcctgt 480
ccagaagtct ggcacatcag gtgttcctcc catggcagga gggaagaaac ccagcaaacg 540
tccagcctgg gacttaaaag gtcagttatg tgacctaaat gcagaactaa aacggtgccg 600
tgagaggact caaacgttgg accaagagaa ccagcagctt caggaccagc tcagagatgc 660
ccagcagcag gtcaaggccc tggggacaga gcgcacaaca ctggaggggc atttagccaa 720
ggtacaggcc caggctgagc agggccaaca ggagctgaag aacttgctg cttgtktcct 780
ggagctggaa gagcggtga gcacgcagga gggcttggtg caagagcttc agaaaaaaca 840
ggtggaattg caggaagaac ggaggggact gatgtcccaa ctagaggaga aggagaggag 900
gctgcagaca tcagaagcag ccctgtcaag cagccaagca gaggtggcat ctctgcggca 960
ggagactgtg gcccaggcag cttactgac tgagcgggaa gaacgtcttc atgggctaga 1020
aatggagcgc cggcgactgc acaaccagct gcaggaactc aagggcaaca tccgtgtatt 1080
ctgccgggtc cgccctgtcc tgccggggga gcccactcca cccctggcc tccctctgtt 1140
tccctctggc cctggtgggc cctctgatcc tccaaccgcg cttagcctct cccggtctga 1200
cgagcggcgt gggaccctga gtggggcacc agctcccca actcgccatg attttctctt 1260
tgaccgggta ttcccaccag gaagtggaca ggatgaagtg tttgaagaga ttgccatgct 1320
tgtccagtca gccctggatg gctatccakt atgcatcttt gcctatggcc agacargcag 1380
tggcaagacc ttcacaatgg aggggtgggt gggggagacc ccarttgga gggctgatcc 1440

```

ctcgggncc

1449

&lt;210&gt; 248

&lt;211&gt; 1484

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (37)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1477)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1478)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 248

```
ccacgcgtcc gcggaacgctg gacggacgcg tgggtcnggt taggaggagc taggctgcc 60
tcgggcccgt gcagatacgg ggttgctctt ttgctcataa gaggggcttc gctggcagtc 120
tgaacggcaa gcttgagcaa cgcggtaaaa atattgcttc ggtgggtgac gcggtacagc 180
tgcccaaggg cgctcgtaac gggaatgccg aagcgtggga aaaagggagc ggtggcgga 240
gacggggatg agctcaggac agagccagag gccagaaga gtaagacggc cgcaaaagaa 300
aatgacaaaag aggcagcagg agagggccca gccctgtatg aggaccccc agatcagaaa 360
acctcaccca gtggcaaac tggcacactc aagatctgct cttggaatgt ggatgggctt 420
cgagcctgga ttaagaagaa aggattagat tgggtaaagg aagaagcccc agatatactg 480
tgcttcaag agaccaaag ttcagagaac aaactaccag ctgaacttca ggagctgcct 540
ggactctctc atcaatactg gtcagctcct tcggacaagg aagggtacag tggcgtgggc 600
ctgctttccc gccagtgcct actcaaagt tcttacggca taggcgakga ggagcatgat 660
caggaaggcc gggtgattgt ggctgaattt gactcgtttg tgctggtaac agcatatgta 720
cctaattgcag gccgaggtct ggtacgactg ggtaccggc agcgtctggga tgaagccttt 780
cgcaagttcc tgaagggcct ggcttcccga aagcccttg tgctgtgtgg agacctcaat 840
gtggcacatg aagaaattga ccttcgcaac cccaagggga acaaaaagaa tgctggcttc 900
acgccacaag agcggcaagg cttcggggaa ttactgcagg ctgtgccact ggctgacagc 960
tttaggcacc tctaccccaa cacaccctat gcctacacct tttggactta tatgatgaat 1020
gctcgatcca agaattgttg ttggcgccct gattactttt tgttgtcca ctctctgtta 1080
cctgcattgt gtgacagcaa gatccgttcc aaggccctcg gcagtgatca ctgtcctatc 1140
accctatacc tagcactgtg acaccacccc taaatcactt tgagcctggg aaataagccc 1200
cctcaactac cattccttct ttaaacactc ttcagagaaa tctgcattct atttctcatg 1260
tataaaacta ggaatcctcc aaccaggctc ctgtgataga gttcttttaa gcccaagatt 1320
ttttatttga ggggtttttg ttttttaaaa aaaaattgaa caaagactac taatgacttt 1380
gtttgaatta tccacatgaa aataaagagc catagtttca aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaannng gggg 1484
```

&lt;210&gt; 249

&lt;211&gt; 2422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2408)

<223> n equals a,t,g, or c

<400> 249

```
ggtcttgaat aaactactat accaggaggc acattttctc gctcaagcat cttacattga 60
ccttctttta aacaaaaata cgtacaaggc ccacgcgtcc gcggacgcgt ggggagtctt 120
tctaattcttc cttttctaca gacctctctg acctctccct tcttccccag gctgctcctt 180
gccaggccga gctagggtccc aattcttctc cagcctctgc tcttccaccc tataatcttt 240
ttatcacctc cctcctcacc acctgstccg gcttacagtt tcttccgtg actagccctc 300
cccsacctgc ccagcaattt actcttaaaa aggtggctgg agctaaaggc atagtcaagg 360
ttaatgctcc tttttcttta tcccaaatca gatagcgttt aggtcttttt tcatcaaata 420
taaaaaycca gccagttcca tgrctygttt ggcagcaacc ctgagacact ttacagccct 480
agaccctaaa aggtcaaaaag gccrtcttat tctcaawata cattttatta cccaatctgc 540
tcccgacatt aaataaaaact ccaaaaatta rawtcyggcc ctcaaaccac acaacaggay 600
ttaattaacc tcrcttcaa ggtgtacaat aatagaaaaa agttgcaatt ccttgcttcc 660
actgtgagac aaaccccgac cacatctcca gcacacaaga acttccaaac gcctgaacyg 720
cagcrgccag gcgttctctc agaacctcct cccacaggag cttgctacac gtgccggaaa 780
tctggccact gggccaagga atgcccgcag ccygggatcc ctctaagcc rcgtcccatc 840
tgtgtgggac cccactgaaa atckgactgt tcaactcacc tggcagccac tcccagagcc 900
cctggaacwc tggccmaagg ctctctgact gactccttcc cagatcttct tggcttagca 960
gctgaagact gacactgcc gatcrrctcr gaagcmccct tgaccatcac ggatgccgag 1020
ctatgggtaa ctctcacagt ggaaggtaag cccgtcccct tcttaataca tacggaggct 1080
accackcca cattaccttc ttttcaaggg cctgtttccc ttgctccat aactgttgtg 1140
ggatttgacg gccaggcttc taaacctctt aaaactcccc aactctggtg ccaacttaga 1200
caatactctt ttaagcactc ctttttagtt atccccatct gccagttcc cttattaggg 1260
tgagacactt taactaaatt atctgcttcc ctgactatcc ctggactaca gctgtatctc 1320
attgccaccc ttcttcccaa tccaaagcct ctttgygtc ctctcttgt atacccccac 1380
cttaaccac aagtataaga tatctctact cctccttga cgaccgatca tgcacccctt 1440
accatctcat taaaacctaa tcacccttac cgcactcaat gccagtatcc cattccgcag 1500
cacgctttta aaagattaaa gcctgttata attgcctgt tacagcatgg ctttttaaac 1560
cctataaact ctctttacaa ttccccatt tttcctgtcc taaaacgaga caagccttac 1620
aagtttagttc aggatctgcg ccttatcaac caaattgttt tgcctatcca ccccggtgtg 1680
ccaaacccat atactctcct atctcaata cctccctcta ctaccatta ttctgttctg 1740
gatctcagac atgctttctt tactattgct ttgcaccctt catcccagcc tctctttgcc 1800
ttcacttaga ctgacctga caccattag gctcaacaaa ttacctgggc tgcactgcc 1860
caaggcttca cagacagccc ccattacttc agtgaagccc aaatttcatc ctcatctgtt 1920
agtcatactc ccgttcaccg ttctcaacta ctcatacatg ccctgctctt ctttacactg 1980
ccggtttaca ctgtttctcc aagacatcac agctgatatc tccgtgtgct atcccaaac 2040
tgccactcta aactcttgaa gtaataaat aatctttgct ggcaggactc tgctgaatct 2100
ccttaggcac tctctaatac gatrtcttag gtccctccaa ttcttagacc ttttataacct 2160
gtttttctcc ttctgttatt ccatttagtt tctcaattca tccaaaaccg tatccaggcc 2220
```

atcaccaatc attctatayg acaaatgttt cttctwacat cccacaata tcaccocctta 2280  
ccacaagacc tcccttcagc ttaatctctc ccactctagg ttcccasgct gcccctaate 2340  
ccgcttgaag cagnccctgag aaacatcggc cattctctct ccataccaac ccccaaaatt 2400  
ttggcggnc aaacttaaa ac 2422

<210> 250

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<400> 250

ttttatgnca aaaaacgcaa cccacgcatg aaaaatgngc caantctttc cttggaatgg 60  
tctgtatttg ggtgaantcc atccagacgt caattaacac ttcctttatt ttgggggttg 120  
ccaactcgtt tccccaggat ttaaagacta taacgatgat aaaagtcagt ttcgcaccct 180  
gtcaaaggct tggcccgttg ccttttcctt cccggcaata ctcggttcaa ttaggtcttg 240  
tcccctcatt atctgtgagg actgaattcc acccccgctt ttcaacgcag gctctttgct 300  
cgggaaaaagt caaaccatct ctcaaaggat caaagagctc agccatagac agagccgccg 360  
gaggaaaagcg gagtcgctgc atcagatgaa agggggccct cagcctcact cctcacgcga 420  
gctcctggga tcttaagac aggggtcagga ggatcaggag ggacaagagg gatggaggcg 480  
aaaggctgga tcttaatcc aggcgggaga caaagccgcg ccaggggagct cgcggcgcgc 540  
ggcccctgtc ctccggcncg agatgaatcc tgccg 574

<210> 251

<211> 1044

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1010)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1011)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1012)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1013)  
<223> n equals a,t,g, or c

<400> 251  
ggcgggctgg ctcagtaaag cggagggcagc gggggaagat ggcggcggcc gttccacagc 60  
gggcgtggac cgtggagcag ctgcgcagtg agcagctgcc caagaaggac attatcaagt 120  
ttctgcagga acacggttca gattcgtttc ttgcagaaca taaattatta ggaaacatta 180  
aaaatgtggc caagacagct aacaaggacc acttggttac agcctataac catctttttg 240  
aaactaagcg ttttaagggc actgaaagta taagtaaagt gtctgagcaa gtaaaaaatg 300  
tgaagcttaa tgaagataaa cccaaagaaa ccaagtctga agagaccctg gatgagggtc 360  
caccaaaaata tactaaatct gttctgaaaa agggagataa aaccaacttt cccaaaaagg 420  
gagatgttgt tcaactgctgg tatacaggaa cactacaaga tgggactggt ttgatacta 480  
atattcaaac aagtgc aaag aagaagaaaa atgccaaaggc ttttaagttt aaggctcggag 540  
taggcaaagt tatcagagga tgggatgaag ctctcttgac tatgagtaaa ggagaaaagg 600  
ctcgaactgga gattgaacca gaatgggctt acggaaagaa aggacagcct gatgccaaaa 660  
ttccacaaaa tgcaaaactc acttttgaag tggaattagt ggatattgat tgaatatgca 720  
gtgcttcagc tctaaggata ttagcaacaa tgataaaaact tggccttgaa gaaatttaca 780  
caactagtta gaacttgcta ctattgtaaa ggaagagtca actggaaaat tcaaggagtt 840  
aataaaattt gtttacttgg tcccagcttt tgagagataa atcccttatg aatccctggt 900  
ctaaaatact ttctacagc tgtgtaaaaat actgggtcaag gagaactttt tccttttacc 960  
tcatgttgta aacttaagtg gctcaataaa aattgatcca ctgtcttgan nnnaaaaaaa 1020  
aaaaaaaaaa aaaaaaaaaa aaaa 1044

<210> 252  
<211> 1029  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (835)  
<223> n equals a,t,g, or c

&lt;400&gt; 252

```
ggcacgagcg gccactgcct gccgcgwgcg gagccggagc ccgagcctga gtggcgcccg 60
gcccgcagtg gggctcctgg gccgcggcg cgggcgggcg atgctccaga ggcctgacca 120
gccatggagg ccgaggcagg cggcctggag gagctgacgg acgaggagat ggcggcgcta 180
ggcaaggaa agctagtgcg gcgcctgcgg cgggaggagg cggcgccct ggcggcactg 240
gtgcagcgcg gccgcctcat gcaggaggtg aatcggcagc tgcagggcca cctgggcgag 300
atccgcgagc tcaagcagct caaccggcgt ctgcaggcag agaaccgtga gctgcgcgac 360
ctctgctgct tcctggactc ggagcgccag cgcggggcg gcgccgcacg ccagtggcag 420
ctcttcggga cccaagcatc ccgggccgtg cgcgaggacc tgggcggctg ttggcagaag 480
ctggccgagc tggagggcg ccaggaggag ctgctgcggg agaaccctagc gcttaaggag 540
ctctgcctgg cgtggggcga agaattgggc ccccgcgcg gccccagcgg cgcggggga 600
tcaggagccg ggccagcacc cgagcttgcc ttgccccgt gcgggccccg cgacctaggc 660
gatggaagct ccagcactgg cagcgtgggc agtccggatc agttgcccc ggctgttcc 720
cccgatgatt gaaggcactg cttcctccac gccgacgccc gcccggttg ctcgccgagc 780
ccggggaccg ctgtggacct cgggacctgg acgccgtcct gctgcgcagg agggncgct 840
ggcatggact aagaaatcct gacaccaaga agggccccct gctcttgctg gcagggcagc 900
agggggactg aaggctggag cggagggact tgctgggggt tggattgggg gtaataaacc 960
cggacggaag cggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggcgc gccgctcgcg 1020
atctagaac 1029
```

&lt;210&gt; 253

&lt;211&gt; 475

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

```
ggcacagcca ggtgctcctg acggacttaa gtgccaaaaa ctgactccat gctaggaacc 60
actgagttct caaccagtga gtttatgatt cctattttta aaataacctt taaagtctga 120
ttataaaaagt agtacatagt ctttgtggaa aattttattaa gtacagtaag tgcagaagaa 180
gaaataaatc actcataatc ccagcagaca gaattaatca ctgtcatttt aggtgtattt 240
ttttgcagag taaaacatgt aaacattttta catagacata aatacaaaca tgataagcat 300
tgacatgga aaatgggcag taaattctgt acatgtgcct tcttgatttt ttgttgatt 360
tttawatcat gcytttttgc aaaatacatt ataaattaaa catggaattt cactagtttt 420
ctgtggtatt cattttccat gggctggaat aatggtccg tccactatat ggggt 475
```

&lt;210&gt; 254

&lt;211&gt; 1724

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (440)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 254

```
ggcacagtac agcaagaggg caaggacaat tgcttaagtt gacctctggg tccggaatcg 60
cgggcaaaga tggcgcgcg cagggtgttg aggcctttgc tacgcggtcc gaggtttca 120
ttgcacaccg cggctaattg cgcgcgacg gctacagaaa cgacctgcca agacgtgcg 180
gcgacccccg tcgcgcggta cccgcgatt gtggcctcca tgacagccga cagcaaagct 240
gcacggctgc ggcggatcga gcgctggcag gcgacggtgc acgctgcgga gtcggtagac 300
```



```
gagaagctgc gaatcctcac caagatgcag tttatgaagt acatggttta cccgcagacc 360
ttcgcgctga atgccgaccg ctggtaccag tacttcacca agaccgtgtt cctgtcgggt 420
ctgccgccgc cccagcgan cccgagcccg agcccgaacc cgaacctgaa cctgcgctgg 480
acctcgccgc gctgcgtgcg gtcgcctgcg actgcctgct gcaggagcac ttctacctgc 540
ggcgcarcgg cgcgtgcacc gttacgagga gagcgaggtc atatctttgc ccttcctgga 600
tcagctggtg tcaacctcgc tgggcctcct cagcccacac aaccgggccc tggccgctgc 660
cgccctcgat tatagatgcc cagttcattt ttactgggtg cgtggtgaag aaattattcc 720
tcgtggtcat cgaagaggtc gaattgatga cttgcgatac cagatagatg ataaaccaa 780
caaccagatt cgaatatcca agcaactcgc agagtttgtg ccattggatt attctgttcc 840
tatagaaatc cccactataa aatgtaaacc agacaaactt ccattattca aacggcagta 900
tgaaaaccac atatttggtg gctcaaaaac tgcagatcct tgctgttacg gtcacaccca 960
gtttcatctg ttacctgaca aattaagaag ggaaaggctt ttgagacaaa actgtgctga 1020
tcagatagaa gttgttttta gagctaagc tattgcaagc ctttttgctt ggactggagc 1080
acaagctatg tatcaaggat tctggagtga agcagatggt actcgacctt ttgtctccca 1140
ggctgtgatc acagatggaa aatacttttc ctttttctgc taccagctaa atactttggc 1200
actgactaca caagctgatc aaaataaccc tcgtaaaaat atatgttggg gtacacaaag 1260
taagcctctt tatgaaacaa ttgaggataa tgatgtgaaa ggttttaatg atgatgttct 1320
acttcagata gttcactttc tactgaatag accaaaagaa gaaaaatcac agctgttgga 1380
aaactgaaaa agcatatttg attgagaact gtgggaatat ttaaatttta ctgaaggaa 1440
aataatgatg agatttgtaa ctgtcaacta ttaaatacat tgatttttga gacaaatatt 1500
tcttatgtca acctgttatt agatctctta ctctgctcaa attcatcact gaaagattta 1560
attttagtta ctttttggtg atttaaaaat aattgcattt gtatatgtct aactgataag 1620
acaaattgag ttattgagct attaaatgca cattttaata taaatgcaga aatcccaaat 1680
aaaatgctaa catactgaat tcagtaatta aaagaaccca ctgc 1724
```

<210> 255

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<400> 255

```
ggcagagcgg ctccctcagct ccaggacctt gctagcagct gccctcagga agaagtttct 60
cagcagcagg aaagcgtctc camtctccct gccagcgtgc atccccagct gtscacggm 120
agagcctgga gaccagctac ctgcagcaca gactccagra gccagcctt ctgtcaaagg 180
cccagaacac ctgtnagcat ctgctgcaga atcaagcgac tctttcttca gaagcagtct 240
caactgcagg cctattttta tcagatgcag atagcagaga gctcctaccc acagccaagt 300
cagcag 306
```

<210> 256

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<400> 256

```
ggcacgaggc cggcgccgccc cctgccctct ccgctggcca cctgctgccg cccgcgccat 60
ggctggcaaa gcacacaggc tgagcgctga ggagaggga cagctgctgc caaacctgag 120
ggctgtgggg tggaatgagc tggaaggccg tgatgccatc ttcaagcagt ttcatttcaa 180
agacttcaac agggcctttg gggtcatgac aagagtggcc ctgcaggctg agaaactgga 240
ccaccatcct gaatggttta acgtgtacaa caaggctcac atcacgctga gcacccatga 300
gtgtgccggc ctttcagaac gggacataaa cctggccagc ttcacgaac aagtagcagt 360
gtccatgaca tagaccctgc ccttctctct tgaattcttc cgggggaaag ggtgactgaa 420
ctgggagtc caggaggag ctgaggagcc cttaccctcc caccactccc ctccaagac 480
ccagccgccc ccgttgaggg ctgagtcctt gctgtgggat gtgccagtgt cccaccaac 540
accaggaatt tagacctttt cctgcacca ctctcttcat cctgggggct ctgttacact 600
aatttgaata aactctcccc tttctttgca acttcccagc aacaataatg attttcttgc 660
caggccgtct cttgctccct aattcatttc ccaggaagct gtgatacagg gtgaaataaa 720
gtcttgtctt agaaaccagg accctaaacc ccacactatg taatagaaac acatgtgttt 780
ttatgtctca aataaaacta ttatatcact tggaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa anaaaaaaaa aaaaaagaaat naaaaaaaaa 890
```

<210> 257

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 257

```
ggcacgaggc ggaggggaaga gcgggcgggc gggaggcgcc ggcgccagac gcggagggaa 60
ggagctacga gtagccgccc agangccgcg garccagcga cgaccgaccc agccgagccg 120
ccgcccgcgc cgcgccccca tggcgggccgc caaggacact catgaggacc atgatacttc 180
cactgagaat acagacgagt ccaaccatga ccttcagttt gagccaatag tttctcttcc 240
tgagcaagaa attaaaacac tggaagaaga tgaagaggaa ctttttaaaa tgcggggcaa 300
actgttccga tttgcctctg agaacgatct ccagagaatgg aaggagcgag gcactggtga 360
cgtcaagctc ctgaagcaca aggagaaagg ggccatccgc ctctctatgc ggagggacaa 420
gaccctgaag atctgtgcc aaccactacat caccgccgatg atggagctga agcccaacgc 480
aggtagcgac cgtgcctggg tctggaacac ccacgctgac ttcgccgacg agtgcccaa 540
gccagagctg ctggccatcc gcttcctgaa tgctgagaat gcacagaaat tcaaaacaaa 600
gtttgaagaa tgcaggaaag agatcgaaga gagagaaaag aaagcaggat caggcaaaaa 660
tgatcatgcc gaaaaagtgg cggaaaagct agaagctctc tcggtgaagg aggagaccaa 720
ggaggatgct gaggagaagc aataaatcgt cttattttat tttcttttcc tctctttcct 780
ttcctttttt taaaaaat taccctgccc ctctttttcg gtttgttttt attctttcat 840
ttttacaagg gacgttatat aaagaactga actcaacatt caggttgttt ttttttttgt 900
ttctaagttt ttgccctatt gaagatgact tcagaaaatc cattccccag tcatgaaaat 960
```

```
gtactgtgct aactttcttt tccatagtggt aaacacttat ttatagtcac caaaaatagt 1020
gaataaaaaa cacatttgga acctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggggac ggacgcgtgg gcggacgcgt 1140
gggcgacgc gtgggtcga                                     1159
```

<210> 258

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (755)

<223> n equals a,t,g, or c

<400> 258

```
accacgcgt ccggttctag atcgcgagsg ccgccttttt ttttttwtta gaagggccag 60
cttactgttg gtggcaaaat tgccaacata agttaataga aagttggcca atttcacccc 120
atcttctgtg gtttgggctc cacattgcaa tgttcaatgc cacgtgctgc tgacaccgac 180
cggagtacta gccagcacia aaggcagggg agcctgaatt gctttctgct ctttacattt 240
cttttaaaat aagcatttag tgctcagtcg ctactgagta ctctttctct cccctcctct 300
gaatttaatt ctttcaactt gcaatttgca aggattacac atttcaactgt gatgtatatt 360
gtgttgcaaa aaaaaaaaaa gtgtctttgt ttaaaattac ttggtttggt aatccatctt 420
gctttttccc cattggaact agtcattaac ccatctctga actggtagaa aaacatctga 480
agagctagtc tatcagcatc tgacaggtga attggatggg tctcagaacc atttcaccca 540
gacagcctgt ttctatcctg tttaataaat tagtttgggt tctctacatg cataacaaac 600
cctgctccaa tctgtcacat aaaagtctgt gacttgaagt ttagtcagca cccccaccaa 660
actttatttt tctatgtgtt ttttgcaaca tatgagtgtt ttgaaaataa agtaccatg 720
tctttattag aaaaaaaaaa aaaaaaaaaa aaaaan                                     755
```

<210> 259

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (665)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 259

```
gtctattagc ttttacctca aaattttaag ccagaactat catctttggt tttttatttt 60
ctatctttaa acatttatct gtgaagtgac aaatggccta cagctgtgag agcaaatgga 120
catctcctcc tgaactctga gaagatgtca aaatccacag gcaacttcct cactttgacc 180
caagctattg acaaattttc agcagatgga atgcgttttg ctctggctga tgctgggtgac 240
actgtagaag atgccaaactt tgtggaagcc atggcagatg caggtattct ccgtctgtac 300
```

```

acctgggtag agtgggtgaa agaaatggtt gccaaactggg acagcctaag aagtgggcct 360
gccagcaactt tcaatgatag agtttttgcc agtgaattga atgcaggaat tataaaaaaca 420
gatcaaaact atgaaaagat gatgttttaa gaagctttga aaacagggtt ttttgagttt 480
caggccgcaa aagataagta ccgtgaattg gctgtggaag ggatgcacag agaacttgtg 540
ttccggttta ttgaagttca gacacttctc ctgcgtccat tctgtccaca tttgtgtgag 600
gcacatctgg gacactcctg gggaaagcct gacttcaatt atggaatgst ttcattgggc 660
tgtgngmagg gtctgtttta atggaagttt ttaattacac tccntcacag tate 714

```

<210> 260

<211> 525

<212> DNA

<213> Homo sapiens

<400> 260

```

ggctttacgg ctgcgagaag acgacagaag ggggtggtgg tcgcgagrga gccggaaaga 60
tggtggttac cagatctgca cgggctaagg ccagcatcca agccgcgtcg gctgaaagt 120
ccgggcaaaa gagttttgct gctaattgga ttcaagcgca tccagaaagt agtactggat 180
ctgatgcccg aactactgct gaatcacaga ccaactggga gcaaagtta atccctagaa 240
ctcctaaagc tagaaagagg aagagcagaa ctacaggctc actaccaag gggactgaac 300
catctacgga tggagagacc tctgaggcag agtcaaatta ttctgtgtct gagcaccatg 360
ataccatttt aagggttaact aggagaaggc agatcttaat tgcattgtcc ccagtgtcca 420
gtgttaggaa aaagccgaaa gtaactccaa caaaggagtc ttacttgaa gaaatagtgt 480
ctgaagcaga atctcatgtt tcaggatatt ctaggaattg tgctt 525

```

<210> 261

<211> 3000

<212> DNA

<213> Homo sapiens

<400> 261

```

gaattctcgg gtgcacccac gcgtccgacc cacgtgtccg gcttcccccg tgtccccca 60
tccccctccc cgcgcccccc ccgcgtcccc ccagcgcgcc cactctctcg gccggggccc 120
tcgcgaggcc gcagcctgag gagattccca acctgctgag catccgcaca cccactcagg 180
agttggggcc cagctcccag tttacttggt ttcccttggt cagcctgggg ctctgcccag 240
gccaccacag gcaggggtcg acatggcaga gacactggag ttcaacgacg tctatcagga 300
ggtgaaaggt tccatgaatg atggctcgact gaggttgagc cgtcaggcat catcttcaag 360
aatagcaaga caggcaaagt ggacaacatc caggctgggg agttaacaga aggtatcttg 420
cgccgtgttg ctctgggcca tggacttaaa ctgcttacia agaattggcca tgtctacaag 480
tatgatggct tccgagaatc ggagtttgag aaactctctg atttcttcaa aactcactat 540
cgcttgagc taatggagaa ggacctttgt gtgaagggct ggaactgggg gacagtgaag 600
tttggtgggc agctgcttcc ctttgacatt ggtgaccagc cagtctttga gataccctc 660
agcaatgtgt ccagtgacac cacaggcaag aatgaggtga cactggaatt ccacaaaac 720
gatgacgcag aggtgtctct catggagggt cgcttctacg tcccacccac ccaggaggat 780
ggtgtggacc ctgttgaggc ctttgcccag aatgtgttgt caaaggcgga tgtaatccag 840
gccacgggag atgccatctg catcttcccg gagctgcagt gtctgactcc tctgtgctgt 900
tatgacattc ggatctaccc cactttctg cactgcatg gcaagacctt tgactacaag 960
atccccctaca ccacagtact gcgtctgttt ttgttacctt acaaggacca gcgccagatg 1020
ttctttgtga tcagcctgga tcccccaatc aagcaaggcc aaactcgcta ccacttcctg 1080
atcctcctct tctccaagga cgaggacatt tcgttgactc tgaacatgaa cgaggaagaa 1140
gtggagaagc gctttgaggg tcggctcacc aagaacatgt caggatccct ctatgagatg 1200
gtcagccggg tcatgaaaag actggtaaac cgcaagatca cagtgccagg caacttccaa 1260

```

gggcactcag gggcccagtg cattacctgt tccatacaagg caagctcag actgctctac 1320  
ccgctggagc ggggcttcat ctacgtccac aagccacctg tgcacatccg cttcgatgag 1380  
atctcctttg tcaactttgc tcgtgggtacc actactactc gttcctttga ctttgaaatt 1440  
gagaccaagc agggcactca gtataccttc agcagcattg agagggagga gtacgggaaa 1500  
ctgtttgatt ttgtcaacgc gaaaaagctc aacatcaaaa accgaggatt gaaagagggc 1560  
atgaacccaa gctacgatga atatgctgac tctgatgagg accagcatga tgcctacttg 1620  
gagaggatga aggaggaagg caagatccgg gaggagaatg ccaatgacag cagcgatgac 1680  
tcaggagaag aaaccgatga gtcattcaac ccaggatgaag aggaggaaga tgtggcagag 1740  
gagtttgaca gcaacgcctc tgccagctcc tccagtaatg aggggtgacag tgaccgggat 1800  
gagaagaagc ggaaacagct caaaaaggcc aagatggcca aggaccgcaa gagccgcaag 1860  
aagcctgtgg aggtgaagaa gggcaagac cccaatgccc ccaagaggcc catgtctgca 1920  
tacatgctgt ggctcaatgc cagccgagag aagatcaagt cagaccatcc tggcatcagc 1980  
atcacggatc tttccaagaa ggcaggcgag atctggaagg gaatgtccaa agagaagaaa 2040  
gaggagtggg atcgcaaggc tgaggatgcc aggagggact atgaaaaagc catgaaagaa 2100  
tatgaagggg gccgaggcga gtcttctaag agggacaagt caaagaagaa gaagaaagta 2160  
aaggtaaaga tggaaaagaa atccacgccc tctaggggct catcatccaa gtcgtcctca 2220  
aggcagctaa gcgagagctt caagagcaaa gagtttgtgt ctagtgatga gagctcttcg 2280  
ggagagaaca agagcaaaaa gaagaggagg aggagcgagg actctgaaga agaagaacta 2340  
gccagtactc cccccagctc agaggactca gcgtcaggat ccgatgagta gaaacggagg 2400  
aaggttctct ttgcgcttgc cttctcacac cccccgactc cccaccata ttttggtacc 2460  
agtttctcct catgaaatgc agtccctgga ttctgtgcca tctgaacatg ctctcctgtt 2520  
ggtgtgtatg tcaactagggc agtggggaga cgtcttaact ctgctgcttc ccaaggatgg 2580  
ctgtttataa tttggggaga gatagggtgg gaggcagggc aatgcaggat ccaaactctc 2640  
atcttacttt cccgacctta aggatgtagc tgctgcttgt cctgttcaag ttgctggagc 2700  
aggggtcatg tgaggccagg cctgtagctc ctacctgggg cctattttcta ctttcatttt 2760  
gtattttctg tctgtgaaaa tgatttaata aagggaactg actttggaaa aagagaggta 2820  
ggcaggagga aggtttatac gcgagtttgt atgggttttg tggggcgta gccggggact 2880  
ttgcgtaagt gggcccgagg gggagagagg ctccctccgc agccccgcac gcggttgctg 2940  
gtccaggctt ttgagccaaa gtggtcccaa tggtcgcgtt ggtccaattg gcagcttcgg 3000

<210> 262

<211> 966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (935)

<223> n equals a,t,g, or c

<400> 262

caaagcagtg cactgaaaat caatttaagt atttactgga gttgtcttga aggcccaatg 60  
ggaaatgtca gtaagggcac atgagaaaac actttaagaa cctattcttc caaagatctt 120  
tccagtatct tatgacaaca cagtaaaatta taccactctc aaatgcaaaa gctgaaacta 180  
ctctgctttc tcacttamct acacttttga ctttcgaaat acattttctct cttcgatat 240  
gagctgcaaa ctccattat ataaaggctcca actctgcagc cctaattatt ctagtgggcc 300  
caagaaaaat cctaattgtt ttatctaagg agacgggaatt ttccaatact gttagggcat 360  
gtgtgtgtgt ttgctttaag gaagctgttt tggttaataaa aagtcactgr aggtcataaa 420  
ttcatgttaa cacatccagt gtacatgaag taggcaccga gttaaactat ttgtctacta 480  
tatagcatgt catcttaaaa gccttatttt ttccctcaaaa tattaacttt atttttctcc 540  
ctgtaaaaatc aagacacagt taaaatgtag ccttctctcat tttctgggaa tactttctaa 600

caagatatgc ttcttttccaa ttggacttct aaattttctag caatttctaac agtgcataaa 660  
agaggcaacc ccaaaagtgt agcagggtact gaataacaga tttgcagcct tgggtatcca 720  
cattaaaatt tgaaatctaa gtgaattact tcaagctgat ttcttaggtc aaggagagat 780  
tatggtcctt aaatgcctga taaggtcaca tacacaattt caagtgcatt atagtaaatac 840  
catgtgwaca gctcctacag ctactaacct gcttctgccc tcacgggtag cgtgcacaat 900  
cttcacgcga tgtcctgggt ggggtggggt ggganccagt taaaaaacc ccttgggggtc 960  
atgttc 966

<210> 263

<211> 2738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<400> 263

ggcggctga gggcacttgc tcttgctgtt tctgcccctg ggttaacatt caagatggta 60  
catgctgaag ccttttctcg tcctttgagt cggaatgaag ttgttggttt aattttccgt 120  
ttgacaatat ttgggtgcagt gacatacttt actatcaaat ggatggtaga tgcaattgat 180  
ccaaccagaa agcaaaaagt agaagctcag aaacaggcag aaaaactaat gaagcaaat 240  
ggagtgaaaa atgtgaagct ctcagaatat gaaatgagta ttgctgctca tcttgtagac 300  
cctcttaata tgcattgttac ttggagtgtat atagcagggt tagatgatgt cattacggat 360  
ctgaaagaca cagtcattct acctatcaaa aagraacatt tgtttgagaa ttccaggctt 420  
ctgcagcctc caaaagggtgt tcttctctat gggcctccag gctgtggtaa aacgttgatt 480  
gccaaaggcca cagccaaaga agcaggctgt cgatttatta acctcagcc ttcgacactg 540  
accgataagt ggtatggaga atctcagaaa ttggctgctg ctgtcttctc ccttgccata 600  
aagctacaac catccatcat ctttatagat gaaatagact cctttctacg aaaccgttca 660  
agttctgacc atgaagctac agccatgatg aaagctcagt ttatgagtct ctgggatgga 720  
ttggatactg atcacagctg ccaggtcata gtaatgggag cnrccaatcg tctcaggac 780  
cttgactcgg ctataatgag aagaatgcct acaagatttc atatcaacca gcctgcttta 840  
aaacagagag aagcaatcct gaaactcatt ttgaaaaatg aaaatgtgga taggcatgta 900  
gacctgctag aagttgccca ggaaactgat gggttttcag gaagtgcact aaaagagatg 960  
tgtcgagatg ctgccctcct ctgtgttaga gaatatgtta attctacatc agaagaaagc 1020  
catgacgaag atgaaattcg gcctgttcaa cagcaggacc tgcacggggc aattgaaaag 1080  
atgaagaaat caaaggatgc agcatttcag aatgttttaa cacatgtttg tttagattaa 1140  
gagtaaagat catttgatca gttagatgat ctagtttggt gtgtcctctt atcagttagt 1200  
ggaaatagaa cggaaagagt gctcttttaa caatgaggga gctcagtgtt tatggtttta 1260  
tactctgaat tctaagttat tgagatatag ttgttacata ggtggtatta ctgttggtca 1320  
aaaatcatga ggaggaacag ttgaatccag cctgaacgtg ggtgcttggt tttgaccttt 1380  
tcagccatat attgtacagc cttatagaat ctaagctggt cttaaagtca taaatgattc 1440  
attgggtcat tagtgagaaa cggggatgtg gttagggtgt ggttcctaga catgtgagta 1500  
tgcgtttgtg tgtgtgctg tatgtatgtg tatattaaat gtatatatcc acacatttta 1560  
tattgacatt ctgtagatat gtttgaatat agaaactttt tttaccccaa ctactgaatc 1620  
caggagtacc aaataatata tagtaaaact aagatttaag gttgtgtcaa aaaggtagac 1680  
tgattcagcc atttccattt gtcatttgtt tcaacctttt ttaagttgag tgtttttatt 1740  
tctgcagtta ttagttggat cctccacatc ttgcatatat acatgggctc aattattatg 1800  
tttgtcagga taatcaaatg aaaatactag ttcagtgatc agcattgaat ggttggttagg 1860  
cagccatgtg ctcaacactg atttcacctc ttgagtataa acttttttaa tttaaattgg 1920

```
tttacatgaa agtggattaa aaggcctttc aaaagaatgg gtttgaaaaa cytcagtacc 1980
ctttaataca tgtacatttc tttccttttt tcatttaatg taacatgtct gttgtaacta 2040
tgtttcttaa atattatttt aagggttatgt gttctttaat tatgggtcaaa tataatttgg 2100
tcacacaaaa tgaaataata gtttaaaaca agtagctggt actaagtgtg ctaaaaaatac 2160
tcattttata attaatTTTA gttttcttag tataattatta taaattgtgc cctaagtcag 2220
gtacaaatgt acacatcaaa atgccatat tgtatctatc tgtagtcggt taatgtgaat 2280
tatatgtgaa tttttttcaa aattttacta accagaattc tgttataggc acctaacccac 2340
gcagcatgag gaaaacggca caacacaatc ttgaggtgcc ttctgaatca tcagattaaa 2400
ttatgcttca tatgtttttg cttttactgt atttctttta aaactctaaa tctttattca 2460
tgtgtcactg gattaattta tctgataatg tgtctcacia gaatctgtta gatcgtttat 2520
tcttcagttg tactttgaat ggtgggggtg aagtttcagg tgaacaatgg ataacaaaaa 2580
gcaagtatg gaagattgtg aagaggatgg aaaaactgaa tacaagatac caaaaatgaa 2640
aaaaagtgtc ccatTTTTTA taactatatt ctattatttt ataaatgtgt aataaagggg 2700
tccctcttta aaaaaaaaaa aaaaaaaaaa aaaaaaaa 2738
```

<210> 264

<211> 1520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<400> 264

```
tcgntccatc ataangcncc atgtgcggaa ttcgctttac ggctgcgaga agacgrcaga 60
agsgggcggg cgtgtagctg agcagscctg gggcttggtt ctatgtccct gtggctatgt 120
ttccagtgtc ctctgggtgt ttccaagagc aacaagaaac gaataaatct ctgaccttc 180
tcagggtgcag ccagagagac actagccac tgatggaygg acagacgtgg gcagggtccg 240
tgtcactaaa ccaccacca ctgccacagc tgcctacaac agacacatca gatgacactc 300
cgggcaaata aatgattttc actgaggact tactggtttt aataataggt cctggtgtag 360
agaagtcocct caacctattg tgcaatgagt tttgagaagc gggtaagctg tatgttttgt 420
ggttytgttt cataaatkca tctacaggaa gaccaatatt gactgaatga agctttcatt 480
taaaagagcta aaatatgctt tgtgttttta tatgtggata ctactttaaa cctaacgact 540
attcattgta tcatagcttg tgatgtattc tgctcayggc ttttaaggta aattgtgcca 600
tgatccactg ccattctaatt tgctttaaca agtcattacc acactactgt tacatcttaa 660
ttatgcatac agacaggtag acttrtttta catatgtgaa ctaactagtt gtcaaagcaa 720
atgcagattg tattctgcaa gtaaagtctt tttctctctg aaatttctag ggatgttctt 780
taagtgaat tcatattmaa actgaagatt ttagttacaa gaactgagtg cagattaaag 840
tcttttgtga ttcaaacata gtcaagagta caactgtgat atttcatgga agttatgcaa 900
```

```
taaaatgtct ctaacctgcg aamaaatctr tcaagcagac gkcacagtac tgaatttgaa 960
accagaaata ctgggttttt atataaatgc ttcataagatt tgttttatga taaagggcac 1020
ataactctcc taaacctcac accacctctt gaataggtat aataagtcca catcaatgct 1080
gatgccttag ctattattaa actcttacag tatgatgtaa agtgaaagta caatgtaaga 1140
tcattcctag gccaaacttg accagtttta tacagaaaca tgtgccaaact tttctgtttg 1200
caaggataat atcaaagcaa acaccagaaa gttatatctt tgatgcattt tttcaaaatc 1260
atacacataa tacacaaacc aaagacaaat gatgaatatt aygtcagaaa atataaagtc 1320
ttcccttttc ttcttttgcc aagaaagtc aatattttca ccatttttat gcacacaatc 1380
aactttatct aagctggaag ttaatgtctc attgttttca ttgttctaaa taaacacctt 1440
ttcccttgag tattgytcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaagg                                     1520
```

<210> 265

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1502)

<223> n equals a,t,g, or c

<400> 265

```
accacgcgct ccgcacaagc cgtctaccta accagaacgg gactgtttta ccctcagagt 60
ctgctggact agctactgcc agttgtccta tcaactgtctc ttctgtagtt gctgccagtc 120
agcaactgtg tgtcactaat acccggaactc ctcatcagat cagaaagcag ttgtttgcct 180
gtgtgcctaa gacaagtcct ccagcaacag tgatttcttc tgtgacaagc acttgtagtt 240
ccctgccttc tgtctcctct gcacctatca cttagcgggca agctcccacc acatttctac 300
ctgcaagtac ttctcaagca cagctttctt cacaaaagat ggagtctttc tctgctgtgc 360
caccacacaa agagaaagtg tccacacagg accagcccat ggcaaacctt tgtaccccat 420
cttcaactgc aaacagttgc agtagctctg ccagcaacac cccgggagct ccagaaactc 480
```



```
accatccag tagtcccact cctacttcca gtaacacaca agaggaggca cagccatcca 540
gtgtgtctga ttttaagtcct atgtcaatgc cttttgcatc taactcagaa cctgtcccat 600
tgactttgac atcaccacaga atgggttgctg ctgataatca ggacaccagt aatttacctc 660
agtttagctgt accagcacct cgagttttctc atcgaatgca gcccagaggt tctttttact 720
ccatgggtacc aaatgcaact attcaccagg atccccagtc tatttttggt acgaatccag 780
ttacttttaac accacctcaa ggcccaccag ctgcagtgca gtttcttcag ctgtgaacat 840
tatgaatggt totcagatgc acataaaccg agcaaataag tctttgccac ctacatttgg 900
cccagccaca cttttcaatc acttcagcag tctttttgat agtagtcagg tgccagctaa 960
ccagggtctg ggagatggtc cactgtcctc acgagttgct acagatgcct ctttactgt 1020
tcagtcagcg ttcctgggta actcagtgct tggacacttg gaaaacatgc accctgataa 1080
ctcaaaggca cctggcttca gaccaccttc ccagcgagtt tctactagtc cagttgggtt 1140
accatccatt gaccatcag gcagctcccc atcttctctt tctgtcctc tggcaagttt 1200
ttccggcata ccaggaacaa ggggttttctt gcaaggggca gctcctgtt ggactcctag 1260
tttcaacaga caacattttt ctccccatcc ttggacaagc gcctcaaact catgtgantn 1320
tcctattcca tstgtttctt cgggatcctc ttcamctctt tcagccaytt cttgccccac 1380
caacgttggg gccaacaaa agggagtcag tgccagtcaa ggattcggaa aggttacctt 1440
cccccaattg gggaacagga ggaggactng gggccgaatt tngggcaagg gagggggtt 1500
tntttggcac aaggccccgg gggggaacca gttttttgt tcggtttccc tttgggacaa 1560
agtgggga 1568
```

<210> 266

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 266

```
agtaagtcgc tgattttgtt tctttttttc aaacagtttt gatttgaagt tcctttaaaag 60
gctgttgag cttttgcaa taccagcta atgaaaggca cttaagattg ggcccatctg 120
catcatcaca ttgaagtttt ctgtctaaag gaaggttcca gctacctgtt acccttttgc 180
taaacacagt tgcaagtgtg cagtgtattt catgacaaaa gtgcaactta gttttctgtg 240
aaatgattat tttctctgaa atgattcttg gtcagtgtga gtttctaaat gttaaagaga 300
```

```
acatagtgtt tttgacctgt gggaaatctc atcttggnnta ccatgggtgt gcacagacca 360
tcaggaagaa ctgaaaagtt caggcaactt gagnaataa aagtcaccac cmgcaaggag 420
gctgtctaaa ataaccggra gattattamc ccagcacgtg gragartgtg ctagtgggta 480
gatgtttwtg aargctacta ggggtccncc cttaggtgcc tgtgctagtc ctaagggggn 540
ggtgg 545
```

<210> 267

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<400> 267

```
aattcggcac agggaaatggc ggggtctcct gagttggtgg tccttgacct tccatgggac 60
aaggagctcg cggctggcac agagagccag gccttggtct ccgccactcc ccgagaagac 120
tttcgggtgc gctgcactgc gaagcgggct gtgaccgaaa tgctacaact gtgcggccgc 180
ttcgtgcaaa agctcgggga cgctctgccg gaggagattc gggagcccg tctgcgagat 240
gcgcagtggg cttttgaatc agctgtgcaa gagaatatca gcattaatgg gcaagcatgg 300
caggaaagctt cagataattg ttttatggat tctgacatca aagtacttga agatcagttt 360
gatgaaatca tagtagatat agccacaaaa cgtaagcagt atcccagaaa gatcctggaa 420
tgtgtcatca aaaccataaa agcaaaacaa gaaattctga agcagtacca ccctgttgta 480
catccactgg acctaaaata tgaccctgat ccagtccttg cctgcattaa ttgaacaagg 540
agagggattt tcccaagttc tcaggatgca acctgggtatc cacccttcaga ggattcacca 600
agaagtcttt ttcagttgtc ataaggaaac cagatgctwa acctgagact ttatwacaca 660
gattgaaacc acaccaacag aaactggttt caggaaaaac cttttacgtg gnacttgaaa 720
aagaaagcaa acttaaagan ttggccccc aaagaaaaat gg 762
```

<210> 268

<211> 1433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

&lt;400&gt; 268

```
gcgaggcct ccgtagtgat ctggccttta ctttctcccc gagtcacggg aagccctcgt 60
tgacctcaca ggggtggacac ccggaggcga gatcccgttc cgggagcag agccctttct 120
catggaacag gacgtgtcgg ggccgctgct ggggaaagca gccgggcccc cagatgctgg 180
agcgggagca ggccccgggc ccccgagac cctccggggc accgcccgt cttgtgcctt 240
tcccgcgctg gtcaccgccc tcaccatctc ggggtgtcttt taggagaatc cttcatgcag 300
ctgcagcagc gtctcctgag agagaaggag gccaaagatca ggaaggcctt ggacaggctt 360
cgcaagaaga ggcacctgct ccgcccgcag cggacgagggc gggagtccc cgtgatctcc 420
gtggtggggg acaccaactg cggaaagacc acgctgatca aggcactgac gggcgatgcc 480
gccatccagc caccggacca gctgtttgcc acgctggacg tcacggccca cgcgggcacg 540
ctgccctcac gcatgaccgt cctgtacgtg gacaccatcg gcttcctctc ccagctgccg 600
cacggcctca tcgagtctt ctccgccacc ctggaagacg tggcccactc ggatctcatc 660
ttgcacgtga gggacgtcag ccaccccgag gcggagctcc agaaatgcag cgttctgtcc 720
acgtgcgtg gcctgcagct gcccgccccg ctccctggact ccatggtgga gggtcacaa 780
aagggtgacc tcgtgcccgg gtacagcccc acggaaccga acgtcgtgcc cgtgtctgcc 840
ctgcggggcc acgggctcca ggagctgaaa ctgagctcga tgcggcgggt ttnaaggcga 900
cggggagaca gatcctcact ctccgtgtga ggctcgcagg ggmgcantca gctggctgta 960
taaggaggcc acagttcagg aggtggacgt gatccctgag gacggggcgg ccgacgtgag 1020
ggatcatcag agcaactcag cctacggcaa attccggaag ctctttccag gatgaacgga 1080
cgccacaga ggcctgcggg gtgggggcat cgtgcctgg ggagctgagg cgttaccgt 1140
gtgttggggg cagcttggtg tcaggtgcag cagggtcctc cttgtctggt tctgcacccg 1200
tctcgtccc agccatttgc tgggatgacc gtgcaggccg gtgacacggc cgcacctgcc 1260
ccaaagcggg ccgcccagc gtccactcca agcctgagca tccacacaat tccagtgggc 1320
cctcgtgcc tgctgtgaac tgctttccct cggaatgttt ccgtaacagg acattaaacc 1380
tttgwtttta cttccgtgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggg 1433
```

&lt;210&gt; 269

&lt;211&gt; 2278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (205)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (335)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2277)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 269

```
cacagtatgg aaatacgggg aagcaggaga tagatccgga aaaataaagt tgagaccaga 60
ctgtagactg tcttgaatgc caagctaaag tgtttatact ttattcagta aataaaciaa 120
actggtagcg caagaaaagg agtgagcaag tggtaacaac ttaaagacaa ttcattttgc 180
tcccacgtgt tatatcatga atttnttggg cccaaagtca tatatagaat tttttaaata 240
```

```
attgatactt gattaaagaa agcacaaga cataaaaata aaacattctt ggtgggggga 300
aatgggtttt aagaggcatt ttattaattt taccncaggt atatttgccc tgtgttttac 360
aaacaaaaar gaggtatgtg gggtacatgt atgaaacact ggatcagaag gaccagtat 420
ttgatgcaaa aggaatagaa acagtcagaa gagattcctg ccctgctgtt tctaagatac 480
ttgagcgttc tctaaagctg ctatttgaaa cgagagatat aagtctaatt aaacagtatg 540
ttcagcgaca atgtatgaag cttctggaag gaaaggccag catacaagac tttatctttg 600
ccaaggaata cagaggaagt ttttcttata aaccaggagc ttgtgtgcca gcccttgaac 660
ttacaaggaa aatgctgact tatgaccggc gctctgagcc tcaggttggg gagcgagtgc 720
catagtcacat cttttatggg acccccggag taccacttat ccagcttgta aggcgcccag 780
tggaagtcct gcaggaccca actctgagac tgaatgctac ttactatatt accaagcaaa 840
tccttccacc cttggcaaga atcttctcac ttattggtat tgatgtcttc agctggtatc 900
atgaattacc aaggatccat aaagctacca gctcctcgcg aagtgaacct gaaggcgga 960
aaggcactat ttcacaatat tttactacct tacactgtcc tgtgtgtgat gacctaaactc 1020
agcatggcat ctgtagtaaa tgtcggagcc aacctcagca trttgcagtc atcctcaacc 1080
aagaaatccg sgagttggaa cgtcaacagg agcaacttgt aaagatatgc aagaactgta 1140
caggttgctt tgatcgacac atcccatgtg tttctctgaa ctgcccagta cttttcaaac 1200
tctcccgagt aaatagagaa ttgtccaagg caccatatct ccggcagtta ttagaccagt 1260
tttaaattgt caatatcaca gtattacagg tgctattttt ttcagtgtct accactaaac 1320
tggtgtgcat ggtgcttttt aactttcatc gagtcaagga tgttcaactgt ctgttatctg 1380
aagactatga agacwtctat gctaaccgaa ttaaaatgta cttgttgatc tctgaatagc 1440
tcacttctta caatgtacaa attcctcatt ctgtcacctt ttaaacattg ttttataatg 1500
caggtgttg atttgctcca gtatgtgtac catcttgtaa attcatttga gtagatcatg 1560
tttacttccc agtggaagga gcaactgaaa cctcttaaag aaaaagcatt tgtgtgtttt 1620
ccttgaactg tctgtatcaa gacgtgttac ttcgagatat ccattcactt tataattttr 1680
actgcaaaat attttgtaaa tacacttttt tacttttcaa acgagtataa taatgtgcaa 1740
tgatttttat acaaattgatt ttcaagttgt ttggtatatt tcctctaggt tttgcttgac 1800
tcaaagtaga tcgttatttt gatcaaaactg tgcaaacagt agtaccacgt gtagcatttt 1860
gaaacattat tttttaaaaa atgctgtctt gcttttagcta ttaatggggc attgtgagga 1920
actgtgcaaa gacatttttg ttacaaacct gtgggcctgt tgcaatactt taaaaataaa 1980
aaattttatt ccatttgctt gttttgtata gacatttcta ttgcttctaa atatacttaa 2040
aatattttct ttccttatgt actgtacagt taatcttatt tgccatcatc ttgaacacaa 2100
aatgtgtatt tagaatattt gtataactgt gtaaaataaa aaaggaatta tgtggtcagt 2160
gcattgtttt ttaaaactgga aatcattttg ttttaaaagt taataatgga aaccatatta 2220
aaattgaata aaatataaaa taatataaaa aaaaaaaaaa aaaaaaaaaa aaaattnc 2278
```

<210> 270

<211> 2533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2531)

<223> n equals a,t,g, or c

<400> 270

```
cggaatagga gcgttgcgag acgggtcggtt ccaagtgggc ctgggcgcgg gggagaggcg 60
gggtctgtcct cgggaactgc aaggccctgt gagcgggagg actgggatcc cggccgcggc 120
tgctggaagc gtcgaagctc agcggggcgg cggacactga cctgtgctta gaactcatcc 180
tggtccgcag agcctgccgc gagtccctgg cgtccctgtt ggcgggctct tggagccact 240
ttcccagcgc gaagtcagcc cgcggctcgg actccggcgg gacctgctcg gaggaatggc 300
gccgcgggtt tcaagcactg tcttcctgtt ggccctgaca atcatagcca gcacctgggc 360
tctgacgccc actcactacc tcaccaagca tgacgtggag agactaaaag cctcgctgga 420
tcgccctttc acaaatttgg aatctgcctt ctactccatc gtgggactca gcagccttgg 480
tgctcagggt ccagatgcaa agaaagcatg tacctacatc agatctaacc ttgatcccag 540
caatgtggat tccctcttct acgctgccca ggccagccag gccctctcag gatgtgagat 600
ctctatttca aatgagacca aagatctgct tctggcagct gtcagtggag actcatctgt 660
taccagatc taccatgcag ttgcagctct aagtggcttt ggccctccct tggcatccca 720
agaagcactc agtgccctta ctgctcgtct cagcaaggag gagactgtgc tggcaacagt 780
ccaggctctg cagacagcat ccacctgtc ccagcaggct gacctgagga gcacgtgga 840
ggagattgag gaccttgttg ctgcctgga tgaactcggg ggcgtgtatc tccagtttga 900
agaaggactg gaaacaacag cgttatttgt ggctgccacc tacaagctca tggatcatgt 960
ggggactgag ccatccatta aggaggatca ggcatccag ctgatgaacg cgatcttcag 1020
caagaagaac tttgagctcc tctccgaagc ctcagcgtg gccctctcag ctgctgtgct 1080
ctcgcataat cgctaccacg tgcagttgt gggtgtgctt gagggctctg cttccgacac 1140
tcatgaacag gctatcttgc ggttgcaagt caccaatgtt ctgtctcagc ctctgactca 1200
ggccactgtt aaactagaac atgctaaatc tgttgcttcc agagccactg tcctccagaa 1260
gacatccttc acccctgtan gggatgtttt tgaactaaat ttcatgaacg tcaaattttc 1320
cagtggttat tatgacttcc ttgtcgaagt tgaagggtgac aaccggtata ttgcaataac 1380
cgtagagctc agagtcaaga tctccactga agttggcatc acaaattgtt atctttccac 1440
cgtggataag gatcagagca ttgcacccaa aactaccggg gtgacatacc cagccaaagc 1500
caagggcaca ttcctgcgag acagccacca gaacttcgcc ttgttcttcc agctggtaga 1560
tgtgaacact ggtgctgaac tcaactctca ccagacattt gtccgactcc ataaccagaa 1620
gactggccag gaagtgggtt ttgttgccga gccagacaac aagaacgtgt acaagtttga 1680
actggatacc tctgaaagaa agattgaatt tgactctgcc tctggcacct acactctcta 1740
cttaatcatt ggagatgcca ctttgaagaa cccaatcctc tggaatgtgg ctgatgtgg 1800
catcaagtcc cctgaggaag aagctccctc gactgtcttg tcccagaacc ttttcaactc 1860
aaaacaggaa attcagcacc tgttccgcga gcctgagaag agggccccc cctgggtgtc 1920
caatacattc actgccctga tctctcgcgc gttgcttctg ctcttcgctc tgtggatccg 1980
gattgggtgc aatgtctcca acttcacttt tgctcctagc acgattatat ttcacctggg 2040
acatgctgct atgctgggac tcatgtatgt ctactggact cagctcaaca tgttccagac 2100
cttgaagtac ctggccatct tgggcagtg gacgtttctg gctggcaatc ggatgctggc 2160
ccagcaggca gtcaagagaa cagcacatta gttccagaag aaagatggaa attctgaaaa 2220
ctgaatgtca agaaaaggag tcaagaacaa ttcacagtat gagaagaaaa atggaaaaaa 2280
aaaactttat ttaaaaaaga aaaaagtcca gattgtagtt atacttttgc ttgtttttca 2340
gtttcccaa cacacagcag atacctggtg agctcagata gtctctttct ctgacactgt 2400
gtaagaagct gtgaatatc ctaacttacc cagatgttgc ttttgaaaag ttgaaatgtg 2460
taattgtttt ggaataaaga gggtaacaat aggaaaaaaa aaaaaaaaaa aacncgaggg 2520
ggggcccggt ncc 2533
```

<210> 271

<211> 1618

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<400> 271

```
gtctggctctc tcaaagggag cagcctctgt agtggttaa atagggaaga 60
tctttatagc cagaaacaac ttagtcatca aatagcaagt gaaacaaaaa cgtcagaggg 120
attactgtac ttggaagtat gttgtgtgtc ccaaatgtga acgaagtatt gttagaat 180
attagatcag cttcttttga gatcaaagat tggaaatcct agtcatagat attcactgga 240
ctggcttttg actgaaatgc tcctttgtaa ttcttttctt attgtctttt ccttctagt 300
tcccaaaaata ttttctttaa rgtcagcaca gtactgtata tgaatcttta atgtggtatc 360
atatatgtct acttttgtct gattcatcga tgtattatat ctttataatt gaatat 420
gtctcgggtc ctggtgcccc ttcaagcagt acatgccaaa ttataaatag gtgctactgg 480
ccttgagcat atcactgtgg gacagttccc caattgtcaa gtgttttagat atgtagacta 540
ttgccatttg ttttttgtt ttggttttgc tttgtgtctg aagctgaatt gatttctttt 600
ttttgaatgt gaaagttgaa tttcaaactg agtcatttct tacagatggc caagacagaa 660
aattgtggct aggttgactg agaactgttg tcttccatgt attaacacaa ttaagctttt 720
tatattccac tctctgtgct gacctggct gaggcatttt gggagacaag gactctgaat 780
cttctgcttc cattaaagaa gaactgtgat attcaacatt ggatttctga gaataaagat 840
aggatgattc ctttgaactt tgacttactt gtataaaatg tccagctagg ttaggttttt 900
gccatttcct atatactttg ggtaaagcta catttgatga gcaatgtgaa tgtttctgag 960
aatgttcatt cctgttttct ctttaagagaa tgtgtgtgtg actaaataga ggccacatag 1020
tgtctgcctg ttgaagatct ggaaactgcc tcccagatc tgtattgtat ttggtaggta 1080
agggggctcag tttcttttct tcattgtgtg ttgataatct acacaccatc tgttggaaac 1140
aggggtgttat tatggggaac tcctcctgtg tactaggagg aggaccttag ggagaccaag 1200
aggagagaag catttccttt gatgaagtca catcctgtct atgagccac taatgctgta 1260
acattggcct gaaagagagt gttcttttaa agcctttctc ggctgttagt ataaaaacat 1320
gatggtatca gctcttagca tgtttgcttg acccttatgg aaggtataaa tccacagaac 1380
ttccttccca gagaactggg aaattgtcct agaaataaac cttgtacagt tgagtggaca 1440
tggtataagca acaatttgtt actttgcagg atttgttctt tggttaattgt ttggtgtgtc 1500
atcctgtaaa tattcatgat agtctgttta tatccttttg tatatcgttg atactggatt 1560
gggtagaaaa ataaattggc aatttataaa aaaaaaaaaa aaaaaaaaaa tntctcgg 1618
```

<210> 272

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (429)  
<223> n equals a,t,g, or c

<400> 272  
aaacagcaag tgggaactca gcattcaagt taacttgtag agctaccag ctgctaagag 60  
cagtgtgac tttggtgctc ttaggatcac tttggtatct gctcattttc ctttttgtct 120  
acctataaaa gcacaaaatc gagtgggtaa aaagtatgaa accagcactg tttctacttt 180  
cttagaggtc tggatcttag tgagcaggct gaggcctcag gactagttca gtgttaagga 240  
tttcatgttg aaactcattt gtctctgtg gggtttttga cagtagagag tgacctaaact 300  
catttgattt tgtttttccc tcagttgact ttccatcttc agttcgaata catttaattg 360  
accaaaatgg cagacattga gtgagtactt cttgnccag tttnaattct ttccttcctt 420  
ttttncnng gttgtgagtt aattggttca acttctgggt tcagggtttt 470

<210> 273  
<211> 983  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (879)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (915)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (930)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (967)  
<223> n equals a,t,g, or c

<400> 273  
ccaagcgga gtagcgttag tgtccgccg agtgctggtg gtgtgttgcg cgactggcct 60  
tgaggagag ctggggcctg ctcccgaga gatacggcta tgatgatcga aatcgaatct 120  
tcggatgtga tccgccttat tatgcagtac ttgaaggaga acagtttaca tcgggcgtta 180  
gcaccttgca ggaggagact actgtgtctc tgaatactgt ggacagcatt gagagttttg 240

tggtgacat taacagtggc cattgggata ctgtgttgca ggctatacag tctctgaaat 300  
tgccagacaa aacctcatt gacctctatg aacaggttgt tctggaattg atagagctcc 360  
gtgaattggg tgctgccagg tcacttttga gacagactga tcccatgac atgttaaaac 420  
aaacacagcc agagcgatat attcatctgg agaacctttt ggccagggtct tactttgatc 480  
ctcgtgaggc atacccagat ggaagtagca aagaaaagag aagagcagca attgcccagg 540  
ccttagctgg cgaagtcagt gtggtgcctc catctcgtct catggcattg ctgggacagg 600  
cactgaagtg gcagcagcat cagggtatgc ttcytcctgg tatgaccata gatttgtttc 660  
gaggcaaggc agctgtcaaa gatgtggaag aagaaaagtt tcctacacaa ctgagcaggc 720  
atattaagtt tggtcagaaa tcacatgtgg agtgtgctcg attttctcca gatggtccag 780  
tatttggtca ctgggtctgt tgatggattc attgaagtat gggaacttta ctactggaaa 840  
aatcagaaaag gatcttaagt taccaggccc aagattaant ttatggatga tgggttgatg 900  
ctgttccccct ggcanagtgt ttcagccagn ggttacagaa atgtttagcc aacttggggc 960  
cccaggntgg gaaaattcaa ggt 983

<210> 274

<211> 2006

<212> DNA

<213> Homo sapiens

<400> 274

ctgaaaaccc ctctggtctc agagacagta ggggcagtgc cactttctac aacctgccaa 60  
cccacacact ggagtaattc tgaaaaaat tattcctaaa ctctctaagt gtggacggag 120  
aatgagcaag cccagaagt atttacaac cagagtgggt aatgaggagg gggcttactg 180  
gaatcgatcat atctctgaat attgaaaaca acaactaaaa aagtggacct tctcagaaaa 240  
aaagggcagc aaatgaccaa gggcgccctc tctggccgtg cttggcctga gtaactgtct 300  
ctctttcccc acccccatca cagggttttc agtttggcaa aggaaaagca gataaaaaaca 360  
gaacattcca tatgtttctt tctccatcgg ccaaaaacat tttgacacaa tgtttgtgaa 420  
acaccttttg agaggtgcac ttctgaatgc tgcctctgcc gtaaatectg ggggcaaggg 480  
atcagcctct tcccaggaac catcgccctc tataaaccgt gaactcaagc aggcattttt 540  
tttttcttac cgaaaggctg ctattgtgca agggcacata atgggtctgt ttgctcttat 600  
tggtcttcaa atgtgcatgg caaagagaga gatgtgggccc tagagcagat atattcagca 660  
aggtgacagy ttcccataac aattctaaca cttcttatct tatgtgagaa taaaatattt 720  
aaggggtgaa ccttattttg ccaaatgtat cttttctgct tttgaattgg gcagaagatt 780  
ttagcaacta tattctacaa atgttactta taacacacac acacacatct gaaatatatg 840  
ccgaaaattg acgtctttgr cctcaggagg agcacctgtc caggctctgcc taaaggaaat 900  
ggctccagtg ggtctaaaca accacatcct atccatggat aggtctagtc ataacacttt 960  
agagagaatg tcagagcagg agggaggcaa gccgcctctt ctcggccatc gactgcagat 1020  
gatgaaagag cgggattcaa ctttgttttc ttttccctgt gccccagtga aacctcctgc 1080  
cctccctgca cgtctgtgtc ttcatattcta aaatgggggt gatgctttca tattgacctc 1140  
acccatact acctcacaga tgtgttgtga ggattaataa aattatgtct atgggtatttt 1200  
cagtttcttg agaaaaatac ttatagacag tttaactatt acatagatat ataagtgatc 1260  
tcagtttctt gtttgctgtg atactaatgt gttgttttaa cttattccat aaaatgacag 1320  
ttgtgtccta gccacatcag acagctatct aagctctgga ctaccccttt gtgcagctga 1380  
atcactgcag ggttgaccat gcctgggtgcc acagccatgg tttccatttc tagatgaaag 1440  
gatggcctag gacataggtc tcaaagactc ttggatcaga atcaggagat tagggaaaac 1500  
aggatggata cctgagcact aacagcagta gacgtagacc tctgtccttt accatctgag 1560  
gtcttctgga ttctttgttg ggttaatttt gatttgatgt catctgtttg cccttcatct 1620  
tgcttgcaag tgtgcatggt tcaatccctc acatccagga aatgaatttt gcaattgggc 1680  
cagatgctaa tttgcacgtt gattcacctt ctttgccttt aagccttttt tttctttttt 1740  
tttttttttg caaatgaatg taccatttca actttgatgt taatagtgtc agttgatatt 1800  
ggtaataatg ctaaccaaga gatcaatgcc agatttttct cttggggtaa gttagctgaa 1860



gtcattttaa gatggaaagg tgggaaaatt ctttgatatt tgatgtcatt gtatccacat 1920  
ttgttgtaag acatattgca taccaattat aattatatca attaaagttg ataaaagctt 1980  
caaaaaaaaa aaaaaaaaaa aaaaat 2006

<210> 275

<211> 1376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1368)

<223> n equals a,t,g, or c

<400> 275

aaanaacaaa agatccagat gttcgattgg gcctcaatca gcattaccca agcttttaaac 60  
cacctccatt tcagtaccat caccgtaamc ccatgggatt ggtgtgacag ccacaaattt 120  
cactacacac aatattccac agactttcac taccgccatt cgctgcacaa agtgtggaaa 180  
aggtgtcgac aatatgccg agttgcacaa acatatcctg gcttgtgctt ctgcaagtga 240  
caagaagagg tacacgccta agaaaaaccc agtaccatta aaacaaactg tgcaacccaa 300  
aaatggcgtg gtggttttag ataactctgg gaaaaatgcc ttccgacgaa tgggacagcc 360  
caaaaggctt aacttttagt ttgagctcag caaaatgtcg tcgaataagc tcaaattaaa 420  
tgcattgaag aaaaaaaatc agctagtaca gaaagcaatt cttcagaaaa acaaactctgc 480  
aaagcagaag gccgacttga aaaatgcttg tgagtcaccc tctcacatct gcccttactg 540  
taatcgagag ttcacttaca ttggaagcct gaataaacac gccgccttca gctgtcccaa 600  
aaaaccctt tctcctccca aaaaaaaagt ttctcattca tctaagaaag gtggacactc 660  
atcacctgca agtagtgaca aaaacagtaa cagcaaccac cgcagacgga cagcggatgc 720  
ggagattaaa atgcaaagca tgcagactcc gttgggcaag accagagccc gcagctcagg 780  
ccccaccaa gtcccacttc cctcctcatc cttcaggtcc aagcagaacg tcaagtttgc 840  
agcttcggtg aaatccaaaa aaccaagctc ctctctttaa aggaactcca gcccgataag 900  
aatggccaaa ataactcatg ttgaggggaa aaaacctaata gctgtggcca agaatacatc 960  
tgctcagctt tccagcaaaa catcacggag cctgcacgtg aggggtacaga aaagcaaagc 1020  
tgttttacia agcaaatcca ctttggcgag taagaaaaga acagaccggt tcaatataaa 1080  
atctagagag cggagtgggg ggccagtcac ccggagcctt cagctggcag ctgctgctga 1140  
cttgagtga aacaagagag aggacggcag cgcaagcagg agctgaagga cttcagctac 1200  
agcctccgct tggcktccc atgctctcca ccagcggccc cgtacatcac cagggagtat 1260  
aggaagggtc aagctccagc tkgcagccca gtttcaggg accatttttc aaagggtaga 1320  
cactctgggc ttgcttcctt tgacagcacc ttgaagtga cctgggantc agttga 1376

<210> 276

<211> 2594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

&lt;222&gt; (2198)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

```
gccccacggt cggccccacgc ggccccacgcc cgccgggtctt gggcactcag catcgttttcc 60
ttttcctccg ctggagcagc tatggcgccg gtgaagaccc tgaaccccaa ggccgaggtg 120
gcccagagcg agggcgcgct ggcggtcaac atcagcgagc cgccgggtct gcaggacgtg 180
ctaaggacca acctggggcc caagggcacc atgaagatgc tcgtttctgg cgctggagac 240
atcaaactta ctaaagacgg caatgtgctg cttcacgaaa tgcaaattca acacccaaca 300
gcttccttaa tagcaaaggt agcaacagcc caggatgata taactggtga tggtagcact 360
tctaattgtc taatcattgg agagctgctg aaacaggcgg atctctacat ttctgaaggc 420
cttcaccta gaataatcac tgaaggattt gaagctgcaa aggaaaaggc cttcagttt 480
ttggaagaag tcaaagtaag cagagagatg gacagggaaa cacttataga tggggccaga 540
acatctcttc gtactaaagt tcatgctgaa cttgcagatg tcttaacaga ggctgtagtg 600
gactccattt tggccattaa aaagcaagat gaacctattg atctcttcac gattgagatc 660
atggagatga aacataaatc tgaaactgat acaagcttaa tcagagggct tgttttggac 720
cacggagcac ggcatcctga tatgaagaaa aggggtggagg atgcatacat cctcacttgt 780
aacgtgtcat tagagtatga gaaaacagaa gtgaattctg gcttttttta caagagtgc 840
gaagagagag aaaaactcgt gaaagctgaa agaaaattca ttgaagatag ggtaaaaaa 900
ataatagaac tgaaaaggaa agtctgtggc gattcagata aaggatttgt tgttattaat 960
caaaagggaa ttgaccctt ttccttagat gctctttcaa aagaaggcat agtcgctctg 1020
cgcagagcta aaaggagaaa tatggagagg ctgactcttg cttgtggtgg ggtagccctg 1080
aattcttttg acgacctaag tcctgactgc ttgggacatg caggacttgt atatgagtat 1140
acattgggag aagagaagtt tacctttatt gagaaatgta acaaccctcg ttctgtcaca 1200
ttattgatca aaggaccaa taagcacaca ctactcaga tcaaagatgc agtgagggac 1260
ggcttgaggg ctgtcaaaaa tgctattgat gatggctgtg tgggtccagg tgctggtgcc 1320
gtggaagtgg caatggcaga agccctgatt aaacataagc ccagtgtaaa gggcagggca 1380
cagcttgag tccaagcatt tgctgatgca ttgctcatta tcccaagggt tctgtctcag 1440
aactctggtt ttgaccttca ggaaacatta gttaaaattc aagcagaaca ttcagaatca 1500
ggtcagcttg tgggtgtgga cctgaacaca ggtgagccaa tgggtggcagc agaagtaggc 1560
gtatgggata actattgtgt aaagaaacag cttcttccact cctgcactgt gattgccacc 1620
aacattctct tgggtgatga gatcatgcga gctggaatgt cttctctgaa aggttgaatt 1680
gaagcttcct ctgtatctga atcttgaaga ctgcaaagt atcctgagga ttacagctgt 1740
ggaatttttg tccaagcttc aaataatttt gaaagaaatt tcccatatg aaaaaaggag 1800
agaacactgg catctgttga aatttggaag ttctgaaatt atagtatttt taaaaattgc 1860
actgaagtgt atacacataa agcaggtctt ttatccagt aacaggatgt tttgctttag 1920
cagcagtgac ataaaattcc atggttagata agcatatgtt acttaccttg ttattaaata 1980
ttcttgaaa agcaaat tttt atggttttaa ttttatgttg acgtatgtta aattatccaa 2040
ctaccctatt gttaagcatt tggtttttaa atttttatgc taatataaat gctcaagtaa 2100
tttaaaatat tgaaagcatc cctgttggtg taaat tctg agtaaatgca ttggatcagt 2160
tggactttga acgcttttga aatggctttg ctaaaatnct cccgccacaa agttgtagga 2220
aatgggaaga ggagtcaact agaggcaagg gagttgagag agctgcaact gtaaagggca 2280
agaacaggca gaggtaaaaa gatgatggaa ggtgtggtga ctaagggccg cggttatttg 2340
gtgaaatttg agattgtagg ccaactgtat tttcaagctt ctgaacttag gcaaaatatt 2400
catcgcaaag tctctagcgt catatttttc tcacccaaat tacgtttcca cgagattatt 2460
tatatatagt tggcttatct ctgcagtcct tgaaggtgaa gttgtgtgtt actaggctgt 2520
gttttgggat gtcagcagtg gcctgaagtg agttgtgcaa taaatgttaa gttgaaacct 2580
caaaaaaaaa aaaa 2594
```

&lt;210&gt; 277

&lt;211&gt; 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<400> 277

```
gctcaagggtg ctgtgggtgct tcctgatcca tgtgcagggc agtatccgcc agttcgccgc 60
ctgccttgtg ctcaccgact tcggcatcgc agtcttcgag atcccgccacc aggagtctcg 120
gggcagcagc cagcacatcc tctcctccct gcgctttgtc ttttgcttcc cgcattggcga 180
cctcaccgag tttggcttcc tcatgccgga gctgtgtctg gtgctcaagg tacggcacag 240
tgagaacacg ctcttcatta tctcgacgc cgccaacctg cacgagttcc acgsggacct 300
gcgctcatgc tttgcacccc agcacatggc catgctgtgt agcccatcc tctacggcag 360
ccacaccagc ctgcaggagt tcctgcgcca gctgctcacc ttctacaagg tggctggcgg 420
ctgccaggag cgcascangg gctgcttccc cgtctacctg gtctacagt acaagcgcat 480
ggtgcagacg gccgcggggg actactcagg caacatcgag tggccagctg cacactctgt 540
tcagccgtgc ggcgytcctg ctgcgcgcc tctgargccg tcaagtccgc cgccawcccc 600
tactggctgt tgctcangcc ccagcactca aagtmataa agccgacttc aancccatgc 660
ccaaaccgtg gaacaaaaa 679
```

<210> 278

<211> 1478

<212> DNA

<213> Homo sapiens

<400> 278

```
ggcagagggc cggccgcagc gctgaggag ccggtgccat ctgtgggggc tttgggccag 60
gggtctcccg acagcatgag cgtgggcttc atcggcgctg gccagctggc ttttgccctg 120
gccaaagggt tgcacagcag caggcgtctt ggctgccac aagataatgg ctactcccc 180
agacatggac ctggccacag tttctgctct caggaagatg ggggtgaagt tgacacccca 240
caacaaggag acggtgcagc acagtgtgt gytcttcctg gctgtgaagc acacatcatc 300
ccctcatcc tggatgaaat aggcgcgac attgaggaca gacacattgt ggtgtcctgc 360
gcggccggcg tcaccatcag ctccattgag aagaagctgt cagcgtttcg gccagcccc 420
agggcatcc gctgcattgac caacactcca gtcgtggtgc gggagggggc caccgtgtat 480
gccacaggca cgcacgcca ggtggaggac gggaggctca tggagcagct gctgagcagc 540
gtgggcttct gcacggaggt ggaaggagc ctgattgatg ccgtcacggg gctcagtggc 600
agcggccccg cctacgcatt cacagccctg gatgccctg ctgatggggg tgtgaagatg 660
ggacttccaa ggcgcctggc agtccgcctc ggggcccagg cctcctggg ggtgccaag 720
atgctgctgc actcagaaca gcaccaggc cagctcaagg acaacgtcag ctctcctggt 780
```

```

ggggccacca tccatgcctt gcatgtgctg gagagtgggg gcttccgctc cctgctcatc 840
aacgctgtgg aggcctcctg catccgcaca cgggagctgc agtccatggc tgaccaggag 900
caggtgtcac cagccgccat caagaagacc atcctggaca aggtgaagct ggactccct 960
gcaggraccg ctctgtcgcc ttctggccac accaagctgc tccccgcag cctggcccca 1020
gcgggcaagg attgacacgt cctgcctgac caccatcctg caccaccttc tcttctcttg 1080
tcactagggg gactaggggg tccccaaagt gcccacttt ctgtggctct gatcagcgca 1140
ggggccagcc agggacatag ccaggagggg gccacatcac tccccactgg aaatctctgt 1200
ggtctgcaag tgcttccag ccagaacag ggttgattc cccaamctca acctccttc 1260
ttctctgtc cctttcagtt ttataagttg gttccagcc ccagtgctc tgacttctgt 1320
ctgccacatg aggagggagg ccctgcctgt gtgggagggg ggttactgtg ggtggaatag 1380
tggaggcctt caactgatta gacaaggccc gccacatct tggagggcatt ctgccttact 1440
gattaaaaatg tcaatgtaat ctaaaaaaaaa aaacaaaa 1478

```

<210> 279

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 279

```

ggcacaggtc cgagcgccgc catggctctg ctgtccgagg gcctggacga gstgcccgcc 60
gcctgcctgt cgccgtgcgg gccgcccaac ccgaccgagc tgttcagcag tcacggcgcc 120
tggctctgga ggactggtgg cgggcggccc cgaagccttc gcggccttcc tgcgacgcga 180
gcgcctggct cgtttctga accccgatga rgtgcacgcc attctgcgcg cggcggagag 240
gccgggagar garggcgcgg cggcggcgcc ggcgggcagg actcgttcgg ctccctgcac 300
gactgctctt cgggcactac ttccccgagc agtcggacct ggagccamcg ctgttgagc 360
ttggctggcc cgccttctam cagggcgccct amcgcggcgc camgcgtgtc gagacgcact 420
tccagccccg cggcgttggc gaagggtggc cctacggctg caaggacgct ctgngccaca 480
ctnccgctcg gcgcgagagg tgattgcagt ggtcatggac gtgttcacag acatcgacat 540
cttcagagac ctgcaagaaa tatgcaggaa acagggagtt gctgtgtata tccttctgga 600
ccaggctctc ctctctcaat ttytgatat gtgcatggwt ctgaaakttc atcctgaaca 660
ggaaaaagtt atgacagttc ggactatcac aggaaatata tactatgcaa ggtcaggaa 720
taagattatt gggaaggttc acgaaaagtt cacgttgatt gatggcatcc gcgtggcaac 780
aggctcctac agttttacat ggacggatgg caaattaaac agcagtaact tggtaattct 840
gtctggccaa gtggttgaac actttgatct ggagttccga atcctgtatg cccagtccaa 900
gcccatcagc cccaaactcc tgtctcactt ccagagcagc aacaagtttg atcacctcac 960
caaccgaaaa ccacagtcca aggagctcac cctgggcaac ctgctgcgga tgcggctggc 1020
taggctgtca agtactccca ggaaggcgga cctggacca gagatgcccg cagagggcaa 1080
ggcagagcgc aagccccatg actgtgagtc ctctactgtt agtgaggaag actacttcag 1140
cagccacagg gacgagctcc agagcagaaa ggccattgac gctgccactc aaacagagcc 1200
aggagaggag atgccagggc tgagtgtgag tgagggtgga acacaaacca gcatcaccac 1260
agcatgtgct ggtaccaga ctgcagtcac caccaggata gcaagctctc aaaccacgat 1320

```

```

ttggtccaga tcgaccacta ctcagactga catggatgag aacattctct ttcctcgagg 1380
aactcaatct acagaagggg caccagtctc aaaaatgtct gtatcgagat cttccagttt 1440
gaagtcttcc tcctctgtgt cttcccaagg ctctgtggca agctccactg gttctcccgc 1500
ttccatcaga accactgact tccacaatcc tggctatccc aagtacctgg gcacccccca 1560
cctggaactg tacttgagtg actcacttag aaacttgaac aaagagcggc aattccactt 1620
cgctgggtatc aggtcccggc tcaaccacat gctggctatg ctgtcaagga gaacactctt 1680
tactgaaaac caccttggcc ttcatcttgg caatttcagc agagttaatt tgcttgctgt 1740
tagagatgta gcactttatc cttcctatca gtaactgctc cgtgttcaga ctcttggttt 1800
cttccaggct tacagtggac atcatcagct tcctgcttta aaaaatatct tatgtcccta 1860
attgcctttc ttttacctga ctttgtcacc tttgttgcct ttgaattctt taggctgcat 1920
attattttac atgctttgtt ttgtcatgta tataccagggt attggtttta tggtttaaac 1980
actatggata cagggggttg ttttgcacaa ttttaatagt catgcactac ataatgatgt 2040
tttggtrcat gacagaccac gtatatgttg gcagctctcat aagattataa tactgtattt 2100
ttactatacc ttttctrtgt ttagatacaa ataccattat gttacagttg cctacagtat 2160
tcagtgcagt aacatgatgt acaggtttgt agcctgtttt gcatttttct taggttgtat 2220
gctcttctgt tttaaagggt tgaatcacca gcatttttgt gatcaaaatc ctatttagaa 2280
aaaataaaac tactttctgt ttatctcttt agaaaaaaa a 2321

```

<210> 280

<211> 1693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<400> 280

```

ggcacagtgt ggagcgggtg tggggcgagg ctgcggaact gcgcgattgt ggttcccggc 60
gtatttcccg ttcccatctt agtaactccc atctcagccc acgtatctcc ctgagtggaa 120
atctcggggc ccagaccagt cgattgggag gtccgccctc cccttcagcg acttggtctg 180
tgttttggca gttgcgcggn acaacagtca cttccgggaa ggggctctgc gaatctcctt 240
ccgtcgggtc gctcagaatc agctgtcctc tcagactgtg tgggtgggtt ccccgggcgc 300
agctccgtac gggccttgat tgctgggcct cgggtgcacc cagcctcccc cactcgggtt 360
ctgagcttga gctggcggct ctttaactct gcttcactgt tgctcttggc aacatccact 420
tccgggagcg agtgccggtt ccccgcgtca ccgcgggcta gggagcgtgg gattccggac 480
tgtgagcggc tgtagtgctg tcgcagctgc tggcgatccg gcgaccctcg gccggcagga 540
ccgcggggcc acgcagccgg ggccttctca acgcctcagt acctcggcgg gaccgccatg 600
gttctgctgc acgtgaagcg gggcgacgag agccagttcc tgctgcaggc gcctgggagt 660
accgagctgg aggagctcac ggtgcagggt gcccggtctc ataattggcg gctcaagggtg 720
cagcgccctc gtcagaaaat ggaagaatta gccgaacatg gcatatttct cctcctaata 780
atgcaaggac tgaccgatga tcagattgaa gaattgaaat tgaaggatga atgggggtgaa 840
aatgcgtac ccagcggagg tgtagtgttt aaaaaggatg atattggacg aaggaatggg 900
caagctccaa atgagaagat gaagcaagtg ttaaagaaga ctatagaaga agccaaagca 960
ataatatcta agaaacaagt ggaagccggg gtctgtgtta ccatggagat ggtgaaagat 1020
gccttggacc agcttcgagg cgcggtgatg attgtttacc ccatggggtt gccaccgtat 1080
gatcccatcc gcatggagtt tgaaaaaag gaagacttgt cgggaacaca ggcagggtc 1140
aacgtcatta aagaggcaga ggcgacgtg tgggtggcag ccaaggagct gagaagaacg 1200
aagaagcttt cagactacgt ggggaagaat gaaaaacca aaattatcgc caagattcag 1260
caaaggggac agggagctcc agcccgagag cctattatta gcagtgagga gcagaagcag 1320

```

```
ctgatgctgt actatcacag aagacaagag gagctcaaga gattggaaga aaatgatgat 1380
gatgcctatt taaactcacc atgggcggat aacactgctt tgaaaagaca ttttcattga 1440
tgaaaagaca taaagtggag accaagatga agttcaccag ctgatgacac ttccaaagag 1500
attagctcac ctttctccta ggcaattata atttaaaaaa aaaaaaaagg ccacttactg 1560
ccctctgtaa aagatgttaa catttctagt tttcttttag tgtgaatttt taaaatagca 1620
gttattcaag gttttagaac ttaataaata cctagtcaga aaaaaatgtg taaatcgttt 1680
ttgtttcagg act 1693
```

<210> 281

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<400> 281

```
ggcagagcca ggactcagta atccctgggg ggcaggctct gnagccctcg gccacacgtg 60
gctnccggca cccatggtcc cagtgccttg gaatggagac ggccagttct ggggccagat 120
gtggtgctct ggaatccagt cccatttctt tcttgccac gagctgtccc agcggcctct 180
tcagccgcat tcagccccta cttacctggg gaccccggtt ggggcacgag aagcaccagg 240
ggggttaggg cccaaagg 258
```

<210> 282

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1764)

<223> n equals a,t,g, or c

<400> 282

```
gctgtgtcct ggagctttat ttggggagtt tyayccagaa tgggtgggaga aacctcccag 60
gtgccaggta ccccgcatcg tgacccttca cttggtgtct taggaagtca agctgaggga 120
tgctgagtc tccctgctg gccctgcag ccccgacct gcttttcac cccacccct 180
gcaaacatgg aggagcccc tcttctcac ctgggtctcc tagccctga catggagaas 240
cctgagacaa gccacagaac ccctctttt taaaatggag acaataattt cctacctccc 300
aaggaggcag agaggcctcg tggcacgtcc gtggccagg agccactgt cctggctggc 360
ggcgggatcg tgcrtctct tgtctcccg atgagaagcc ccgtttccat ggtcttgacc 420
cttcttttct cccggtgtgc agaactgggt ctcttgattt tgcccctaca ttatgcctct 480
gtgggaaaaa aaaaaaaatc agaccaagaa atgagcctga aattcagtg ttaccatggc 540
tcaaggatgc ccatctggtg tccagttgcc ttttgtattc aaatgaaaat gctttgtaca 600
```